

16x3" BCB Wave Curve Uniformity Technology 2-Beam Active Adjustable Directivity Speaker

SP-A816AD-BCB



DESCRIPTION

The SP-A816AD-BCB is an advanced active loudspeaker system featuring wave curve uniformity technology, equipped with eight 3-inch drivers and two independently adjustable directional beams. This cutting-edge speaker system integrates sophisticated audio technology with practical design, offering precise sound field control adaptable to diverse acoustic environments. It boasts 320W (AES) power output, ≥ 118 dB SPL, and a wide frequency response range of 100Hz-18KHz, ensuring powerful and clear audio performance. The accompanying intuitive software provides real-time beam simulation and independent adjustment capabilities, allowing users to easily optimize sound field coverage. Supporting both analog and Dante digital inputs with various professional interfaces, the system incorporates a 16-channel DSP processor and amplifier module (total power 480W/4 Ω), guaranteeing high-quality signal processing and output. With its compact design and exceptional performance, the SP-A816AD-BCB is an ideal choice for venues such as concert halls and conference centers where premium audio quality and precise control are paramount.

PRODUCT FEATURES

- | Advanced BCB wave curve uniformity technology and phased array beam directivity adjustment, this speaker achieves precise sound field control, adapting seamlessly to diverse acoustic environments.
- | Boasting 320W (AES) speaker power and a robust ≥ 118 dB sound pressure level, coupled with an expansive frequency response range of 100Hz-18KHz, it delivers powerful audio performance with exceptional clarity and nuanced sound reproduction.
- | Software features real-time beam simulation and independent beam adjustment capabilities. Through its intuitive visual interface, users can effortlessly optimize sound field coverage, precisely tailoring acoustic output to meet the demands of various scenarios.
- | Versatile connectivity is ensured through simultaneous support for analog and Dante digital signal inputs, along with an array of professional interfaces including RJ45, USB, and Phoenix connectors, catering to a wide spectrum of audio system requirements.
- | The integrated 16-channel DSP processor and amplifier module, delivering a total power of 480W/4 Ω , provide the speaker with formidable signal processing capabilities and robust driving force, guaranteeing high-fidelity sound output across all applications.
- | IoT-ready for unified management through cloud-based control platform

SPECIFICATION

Display Parameters	
Frequency Response (-10dB)	100Hz-18KHz
Driver	16x3" Voice-coil
Power Handling (Program/Peak)	320W(AES)、1280W(PEAK)
Sensitivity (±2dB)	94dB/w/m
Maximum SPL	≥118dB(One Meter)
Mode	1. BCB Wave Curve Uniformity Mode (adjustable vertical dispersion angle of the speaker) 2. Phased Array Beam Directivity Adjustment Mode (adjustable vertical directivity changes of the speaker)
BCB Wave Curve Uniformity Mode (-12dB)	Horizontal 125° * Vertical range from 5° (lower limit) to 110° (upper limit),
Phased Array Beam Directivity	adjustable via software in 0.1° increments
Adjustment Mode (-12dB)	Horizontal 125° x Vertical (5° to 110°), with 1 to 2 adjustable beams
Beams independently adjustable in the vertical direction within the software	+50° to -50° (minimum increment of 0.1°)
Real-time beam simulation diagram	Yes
DSP Processor	Yes
Amplifier Module Output Power	16 channels, 30W/4Ω per channel, total power ≥480W/4Ω
Audio Input	1 balanced analog input channel signal, 1 Dante digital signal
Interfaces	2x RJ45 ports including Dante and TCP/IP general interface, 1x USB port, 1x Phoenix connector balanced input with volume knob
Power Supply	100-240VAC
Net Weight	16.2KG
Dimensions (WxDxH)	116x141*1363mm