

FAL-304BF



This active array column speaker is designed to replace bulky, traditional wall-mounted speakers with a sleek, space-saving, and modern aesthetic. Equipped with integrated Dante network audio and advanced power conversion, it provides high-fidelity vocal clarity and balanced background music for contemporary architectural environments.

Key Features

- **Sleek Streamlined Design:** Modern, space-conscious profile that blends seamlessly into architectural interiors while delivering premium sound quality.
- **Cardioid Dispersion Acoustics:** Front circular waveguide holes combined with cabinet damping ports create a unique low-frequency cardioid coverage pattern—delivering crisp highs, full bass, and natural, rich vocal performance.
- **High-Performance NdFeB Drivers:** Powered by 4 × 3-inch neodymium-iron-boron (NdFeB) magnet drivers for delicate timbre performance and vivid musical details.
- **Integrated Dante Network Audio:** Built-in Dante module (RJ45) supporting Dante Controller for seamless IP audio routing and distribution.
- **Advanced Power & Amplifier Architecture:** Features single-stage DC-AC conversion, soft-switching technology, bidirectional energy recovery, and precise Phase Modulation (PSM) technology.
- **Built-in System Protection:** Comprehensive protection circuitry including over-current, over-temperature, overload, and load short-circuit safeguards.
- **Durable Construction:** Built with high-strength ABS glass-fiber reinforced cabinet and protective metal mesh grille with natural convection cooling.
- **Optional Enhancements & Accessories:**
 - Weatherproofing: Optional UV-resistant waterproof dipping paint for both indoor and outdoor installations.
 - Fire Safety: Optional UL94V-0 flame-retardant grade material.
 - Mounting Accessories: Spirit level device, handle device, and anti-vibration rubber pads.

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Specifications

Audio & Performance

Parameter	Specification
Driver Unit	4 × 3" NdFeB Magnet High-Performance Drivers
Rated Power	60 W
Effective Frequency Range	80 Hz – 18 kHz
Characteristic Sensitivity (1m/1W)	87 dB
Specified Frequency Band SPL	105 dB
Coverage Angle (H × V)	120° Horizontal × 20° Vertical

Digital, Power & Connectivity

Parameter	Specification
Audio Transmission Protocol	Dante
Audio Routing Control	Dante Controller
Power Input	PoE compatible (IEEE 802.3af / 802.3at / 802.3bt)
Amplification & Conversion	Single-stage DC-AC conversion, Soft switch, Bidirectional energy recovery, Precise PSM
Protection Functions	Over-current, Over-temperature, Overload, Load Short-circuit protection
Cooling System	Natural convection cooling

Physical & Mechanical Specs

Parameter	Specification
Cabinet Material	ABS mixed glass-fiber reinforced
Grille Material	Metal mesh
Color Options	Black / White
Mounting Points	10 × M6 threaded holes
Mounting System	Adjustable angle bracket / Narrow wall-spacing bracket
Dimensions (H × W × D)	530 × 98 × 153 mm
Net Weight	4.15 kg