

Dante Speaker DC20



CATALOG

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Product Introduction

The DC20 is a Dante-enabled, PoE-powered ceiling loudspeaker designed by AISpeech, featuring a two-way architecture with a passive crossover for full-range reproduction and intelligible speech. Its woofer employs heat-resistant, long-excursion design with a composite PP waterproof cone to reduce high-power distortion, while the silk-dome tweeter delivers clear, detailed highs.

A galvanized-steel back can and high-strength ABS enclosure enhance fire friendliness and environmental robustness. The loudspeaker supports flush or suspended mounting with bundled accessories, and Dante + PoE provides single-cable audio and power for simplified wiring and centralized management.

Main Features

Dante & PoE Single-Cable

DC20 combines Dante audio and PoE power on a single cable, enabling centralized addressing, zoning, and level policies. It supports fleet-wide monitoring and remote management across classrooms and enterprise rooms.

Drivers & Coverage Control

DC20 pairs a heat-resistant, long-excursion woofer with a silk-dome tweeter and adjustable HF aiming to focus on the lectern or audience. It maintains low distortion and detail at higher SPLs and over extended duty cycles.

Voicing for Speech Intelligibility

DC20 uses a two-way design with a passive crossover voiced for intelligible speech and balanced full-range response, delivering natural vocals and stable imaging for lectures, remote discussions, and hybrid meetings—without heavy tuning.

Compliance & Architectural Fit

DC20 features a high-strength enclosure with a metal back can for structural safety and code compliance. It supports flush or suspended mounting, includes complete hardware, uses a slim bezel for a clean architectural look, and allows convenient service access.

Product Specifications

Function	Specification	
General	• Product type	Full-Range Coaxial Ceiling Speaker
	• Mounting options	Flush-mount (Ceiling), Suspended
Power & Audio	• Power input	Compatible with 802.3af / 802.3at / 802.3bt (PoE)
	• Audio protocol	Dante
	• Audio input connector	RJ45
Driver units	• Woofer	6.5-inch Polypropylene Composite Cone + NBR Rubber Surround
	• Tweeter	1-inch Silk Dome, Neodymium Magnet, 360° Rotatable
Acoustic performance	• Frequency response	65 Hz – 20 kHz (±3 dB)
	• Coverage angle (1kHz/-6dB)	120° (H) × 120° (V)
	• Sensitivity SPL	89 dB @ 1m / 1W
	• Maximum SPL	111 dB
	• Nominal impedance	8 Ω
Power handling	• Rated power (RMS)	30 W
	• Peak power handling	60 W
Physical & Installation	• Enclosure material	Steel Grille + Steel Engineering Enclosure
	• Cut-out diameter	246 mm (Circular)
	• Mounting depth	197 mm
	• Weight	3.3 kg
	• Included accessories	Safety Cable
Additional features	• Built-in features	Power Amplifier, Digital Signal Processing (DSP)

Audio Performance

Frequency Response Curves: The curves below show the frequency response at different horizontal off-axis angles, with the loudspeaker as the rotation center. A measurement microphone was placed 1 m from the loudspeaker at 0°, 30°, and 60° in the horizontal plane.

