

M55D

HANGING CEILING MICROPHONE FOR THE DANTE® | AES67 INTEGRATED MICROPHONE SYSTEM

OVERVIEW

The M55D is an innovative, ceiling microphone system designed for applications where aesthetics, sound quality, and ease of installation are critical. All electronics are fully integrated with high sensitivity and low noise. The signal output is balanced to eliminate RF interference caused by cell phones and mobile devices.

Designed, machined, assembled, and tested by Audix in Wilsonville, Oregon.

DANTE MADE SIMPLE BY AUDIX

The M55D is designed exclusively for the Audix Dante-AES67 Integrated Microphone System, which delivers high-quality audio and all microphone functions – including on-off contact closure and LED status indicators – through a single shielded CAT5 - CAT7 cable with RJ45 connections. This simple configuration eliminates wiring errors, accelerates installation, and reduces cost. And like all Audix microphones in the system, the gain structure and response is optimized for speech, providing quality audio at the DSP. The result is true plug-and-play installation.

FEATURES

- High output allows distance miking
- Optimized for voice recognition
- Low-noise preamp circuitry
- Immunity from RF interference
- Two-color LED status indicator
- RJ45 connectors for plug-and-play integration with the Audix Dante | AES67 Integrated Microphone System
- No external power adaptor required

APPLICATIONS

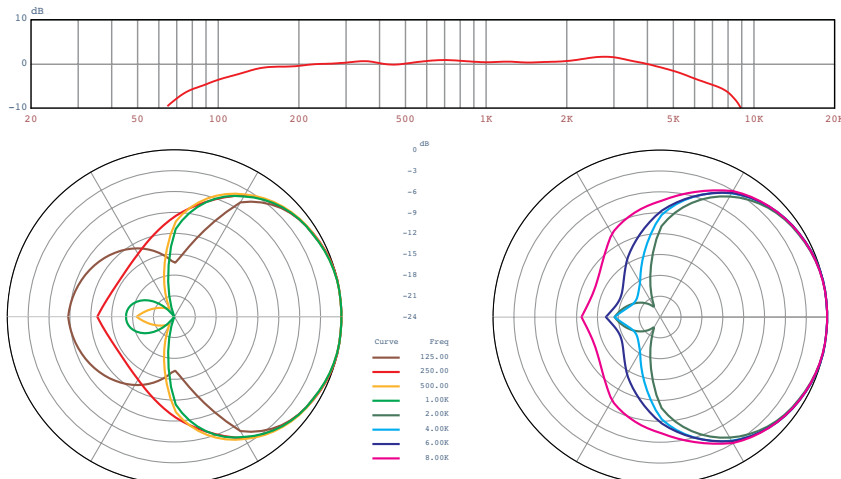
- Video teleconferencing (VTC)
- Distance learning
- Boardrooms
- Surveillance
- Hospital and medical procedures
- Ambient room miking



SPECIFICATIONS

Transducer Type	Condenser
Frequency Response	65 Hz - 9 kHz
Polar Pattern	Hypercardioid
Output Impedance	150 ohms
Sensitivity	38 mV (C) / Pa @ 1k
Equivalent Noise Level	22 dB (A-weighted)
Signal to Noise Ratio	72 dB
Maximum SPL	≥130 dB
Dynamic Range	108 dB
Power Requirements	18 - 52V phantom
Connector	RJ45 receptacle
Recommended Cable	Shielded CAT5e, CAT6, CAT6a, or CAT7
Materials / Finish	Machined brass, aluminum mic in white finish
Weight	70 g / 2.4 oz (Mic & Cable) 499 g / 17.6 oz (Junction Box & Safety Cable)

FREQUENCY & POLAR RESPONSE



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AUDIX®

ARCHITECT & ENGINEER SPECIFICATION

The microphone shall be of the condenser type with a modular threaded capsule available in cardioid and omni polar pattern. The microphone shall be protected from RF interference. The microphone shall have a fully integrated preamp circuitry thereby eliminating the need for a remote preamplifier module. The microphone shall operate on 18 - 52 Volts Phantom and the nominal output impedance shall be equal to 150 Ohms at 1 kHz. The microphone shall have a sensitivity of 38 mV (C), 40 mV (O) / Pa at 1 kHz. The microphone shall have a maximum SPL level of ≥ 130 dB with THD of 0.5%. The microphone shall be housed within a module which will conceal and protect wiring from the microphone and the terminal connectors. The Microphone shall have a two-color LED status indicator. The microphone shall terminate in an RJ45 receptacle connector. The microphone shall be machined out of brass and the dimensions shall be 12 mm in diameter. The microphone shall be the Audix M55D.

SUPPLIED ACCESSORIES

- Seismic cable

OPTIONAL ACCESSORIES

- **MCHANGER** - Clear plastic clip to adjust microphone angle
- **WS20W** - White foam windscreen to reduce wind noise PD133 - Pop diffuser to control plosives

SINGLE CABLE CONNECTIVITY

- A:** Error-free single RJ45 cable that completes Audio, LED, and contact closure connections in one easy step.
- B:** Up to four microphones can be supported by a single RJ45 cable connection to your switch and/or DSP.

