

A231

LARGE DIAPHRAGM CONDENSER VOCAL MICROPHONE

OVERVIEW

The A231 is a large diaphragm condenser microphone built for the most discerning studio user. With its externally-biased “true condenser” capsule and low-noise circuitry, the A231 is able to capture the nuances of the human voice as well as the rich overtones of acoustic instruments with natural warmth and in stunning detail. An exceptionally consistent cardioid polar pattern focuses on the performance while offering smooth off-axis rejection.

The 33 mm condenser capsule of the A231 features a precision-tensioned diaphragm made from a specially formulated, heat-treated film with gold deposition distributed evenly to the far edges of the diaphragm. The result is a 25% greater effective diaphragm area when compared to the capsule of a typical large diaphragm microphone.

Behind the double-woven steel mesh grille of the A231, acoustic reflections and diffractions are minimized for transparent sound capture. The internal shock mount isolates the capsule from mechanical vibrations, eliminating the need for a bulky external shock mount. Proprietary impedance control between the capsule and circuitry ensures consistent and reliable performance across a wide range of environments.

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

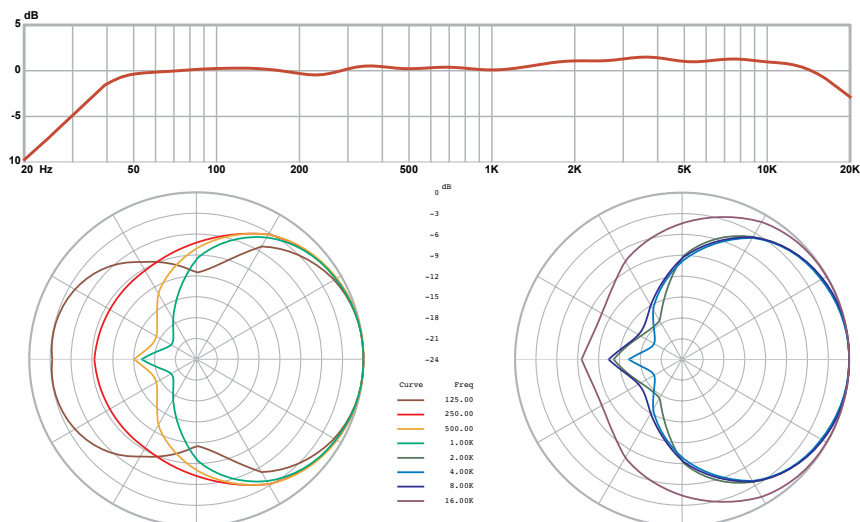
FEATURES

- 33 mm externally-biased condenser capsule
- 25% greater effective diaphragm area
- Cardioid polar pattern
- Proprietary internal shock mount
- Low noise preamp circuitry
- Machined aluminum body with gold-plated brass band

APPLICATIONS

- Vocals
- Choir
- Voiceover
- Podcasting
- Piano
- Acoustic instruments

FREQUENCY AND POLAR RESPONSE



SPECIFICATIONS

Transducer / Capsule Technology	33 mm externally-biased condenser capsule / 29 mm 3.4 micron gold-sputtered diaphragm
Frequency Range	20 Hz - 20 kHz
Polar Pattern	Cardioid
Output Impedance	150 ohms
Sensitivity	16 mV / Pa @ 1 kHz
Signal to Noise Ratio	82 dB
Maximum SPL	140 dB
Dynamic Range	128 dB
CMRR	>70 dB @ 1 kHz
Maximum Output Voltage	4 V rms
Cable Drive Capability	>303 meter (1000ft) cable = 100pF per meter
Equivalent Noise Level	12 dBA
Operating Voltage	48 V $\pm$ 4 V Phantom
Connector	3-pin XLR m
Materials / Finish	Body: Machined aluminum and gold-plated brass band Grille: Steel alloy
Weight	330 g / 11.6 oz

OPERATION AND MAINTENANCE

The A231 is a low impedance microphone and should be plugged into a “mic level” input on your console, mixer, or recording device with 48 V phantom power. Allow a minimum of 20 seconds for the A231 to stabilize after phantom power is supplied.

Avoid plugging or unplugging the microphone from a PA system unless the channel is muted, or phantom power to the A231 channel is turned off. Failure to do so may result in a loud “popping” noise or damage to the PA system or studio monitors.

The A231 is manufactured to exacting specifications. The capsule is highly sensitive and the microphone should be handled with care. Avoid exposing the microphone to extreme temperatures, moisture, and shock. Store your microphone in a protective case when not in use.

USER TIPS

The sound source should face the Audix logo, which indicates the front of the microphone.

Further miking techniques may be found at www.audixusa.com.

DIAGRAM



Grille

- Double-woven steel mesh grille
- Ultra-thin acoustic foam

Capsule

- 33 mm externally-biased condenser
- 25% greater effective diaphragm area
- Minimized acoustic reflections and diffractions
- Internal shock mount

Circuitry

- Low-noise preamp
- Active driven shield

Housing

- Machined from solid aircraft-grade aluminum alloy
- Black anodized and laser engraved
- Gold-plated brass band

SUPPLIED ACCESSORIES

- **POUCHAXMED** – Protective zippered carrying case
- **DCLIP** – Heavy duty nylon molded snap on clip

OPTIONAL ACCESSORIES

- **APS2** – Two-channel 48 V phantom power supply with 110 V switchable to 240 V and detachable power cord
- **TRIPOD** – Metal tripod desktop mic stand
- **STANDKD** – Short pedestal stand with telescoping boom arm
- **DFLEX** – Dual pivot rim mounted clip with extra wide butterfly jaws
- **CBL20** – 20' premium XLR-XLR balanced mic cable. Quad conductor, twisted pair with braided shield for conductivity. 6 mm PVC jacketed
- **CBLDR25** – 25' premium right angle XLR balanced mic cable. Quad conductor, twisted pair with braided shield for conductivity. 6 mm PVC jacketed
- **PD133** – Pop diffuser to control plosives

DIMENSIONS

