

# ADX51 Studio Condenser Microphone

## OVERVIEW

The ADX51 is a professional pre-polarized condenser microphone used for stage, studio and broadcast applications. The ADX51 is known for its clear, accurate response and flexibility to handle close or distance miking for a wide variety of acoustic instruments.

Characterized with a uniformly controlled cardioid polar pattern, the ADX51 is designed to capture the acoustics of the instrument being miked while at the same time isolating it from the rest of the instruments on stage. With a wide frequency range of 40 Hz - 18 kHz, the ADX51 features a 14 mm gold vapor diaphragm and a -10 dB pad and bass roll-off filter at 150 Hz.

The ADX51 is very easy to position, durable and manufactured to high standards and tight tolerances. The ADX51 has a precision machined brass body, durable black E-coat finish, steel mesh grill, and gold plated XLR connector.

## SUPPLIED ACCESSORIES

**DCLIP** - Heavy-duty nylon molded snap on clip

**P1** - Carrying pouch

**WS1C** - External foam windscreen for reducing wind, sibilance and pop noise

## OPTIONAL ACCESSORIES

**APS2** - Two-channel 48 V phantom power supply. 110 V switchable to 240 V. Detachable power cord.

**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.

**PD133** - Optional two-layer mesh pop diffuser for controlling acoustic plosives.

**SMT25** - Low profile shock mount system with nylon cable and thumbscrew for positioning.



## FEATURES

- Premium electret condenser microphone
- Smooth accurate frequency response
- Switches for -10 dB pad and bass roll-off
- Designed, assembled & tested in the USA
- 3 year warranty

## APPLICATIONS

- Drum overheads, hi hat, cymbals
- Acoustic instruments
- Percussion table
- Group vocal, spoken word
- Ambient room miking
- Audience mics for in-ear monitors



DCLIP



P1



WS81C



APS2



DFLEX



CBL20



PD133



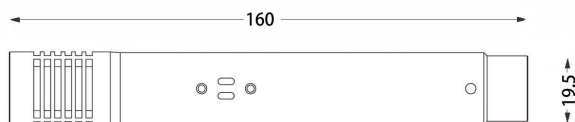
SMT25

# ADX51

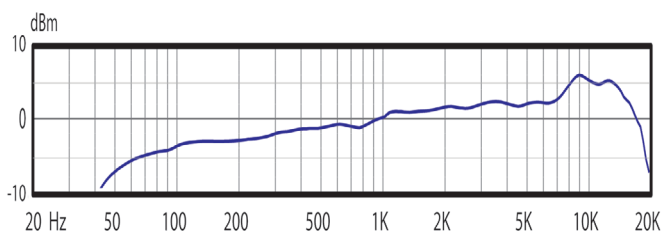
## SPECIFICATIONS

Transducer Type	Pre-Polarized Condenser
Frequency Response	40 Hz - 18 kHz
Polar Pattern	Cardioid
Output Impedance	100 ohms
Sensitivity	17 mV / Pa @ 1k
Capsule Technology	Black Electret GV Diaphragm
Off Axis Rejection	>15 dB
Maximum SPL	≥132 dB
Power Requirements	9-52 V Phantom
Connector	3-pin XLRm
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output XLR connector
Materials / Finish	Brass / Black Finish
Weight	184 g / 6.5 oz
Length	160 mm / 6.3 in

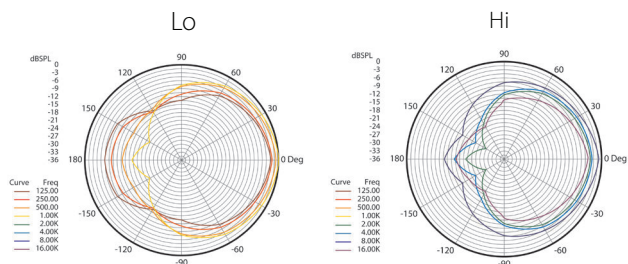
## DIMENSIONS (mm)



## FREQUENCY RESPONSE



## POLAR PATTERNS



**PRODUCT REGISTRATION:** Please register your product online at [www.audixusa.com/docs\\_12/about/product\\_registration.shtml](http://www.audixusa.com/docs_12/about/product_registration.shtml).

**SERVICE AND WARRANTY:** This microphone is under warranty for a period of 3 years to be free of defects in material and workmanship. In the event of a product failure due to materials or workmanship, Audix will repair or replace said product at no charge with proof of purchase. Audix does not pay or reimburse shipping costs for warranty repairs or returns. The warranty excludes any causes other than manufacturing defects, such as normal wear, abuse, environmental damage, shipping damage or failure to use or maintain the product per the supplied instructions. No Implied Warranties: All implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose are hereby excluded. The liability of Audix, if any, for damages relating to allegedly defective products shall be limited to the actual price paid by Dealer for such products and shall in no event include incidental or consequential damages of any kind. Should your microphone fail in any way, please contact the Audix Service department at 503.682.6933. A Return Authorization is required before returning any product. OTHER THAN THIS WARRANTY, AUDIX MAKES NO WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS, THE USE OF THE PRODUCTS, THE PERFORMANCE OF THE PRODUCTS. AUDIX SHALL NOT BE LIABLE FOR SPECIAL INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES ARISING FROM OR BASED ON THE SALE, USE, STORAGE OR DISPOSAL OF THE PRODUCTS, AUDIX'S SERVICE WORK, BREACH OF WARRANTY, BREACH OF CONTRACT. NEGLIGENCE, OR ANY OTHER THEORY OF LIABILITY, EVEN IF AUDIX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## ARCHITECT AND ENGINEER SPECIFICATIONS

The microphone shall be a back plate pre-polarized condenser with a cardioid polar pattern. The microphone shall operate on 9-52 Volts phantom power and the nominal output impedance shall be equal to 100 ohms at 1 kHz. The microphone shall have switches for -10 dB pad and 150 hz bass roll-off filter and shall have a sensitivity of 17 mV / Pa at 1 kHz. The microphone shall have a maximum SPL level of ≥132 dB with a THD of 0.5%. The microphone shall be machined from brass with dimensions of 19.5 mm in diameter and 160 mm in length.

## OPERATION AND MAINTENANCE

The ADX51 will NOT operate without phantom power voltage (48 Volts recommended) which is available on most professional mic preamps and mixing devices. If phantom power is not available on your equipment, use a phantom power supply such as the Audix APS2. Avoid plugging or unplugging the microphone from a PA system unless the channel is muted or the volume of the system is turned down. Failure to do so may result in a loud "popping" noise which could seriously damage the speakers in the PA system, studio monitors or headphones.

**Pad and Roll-Off:** These recessed switches are located towards the middle of the mic. You will need either a miniature screw driver or a pen to move them down (engaged) or up (not engaged).

**Pad:** The switch on the left side of the mic is a -10 dB pad. This means you can reduce the input level of the mic by 10 dB. This is very helpful for miking extremely loud instruments (guitars, drums, horns) that can drive the mic into distortion. Note that the feature is active when the switch is in the down position.

**Bass Roll-Off:** This feature gently rolls off the bass frequencies starting at 150 Hz and below which is very helpful in reducing boominess for voice or instrument. Note that the feature is active when the switch is in the down position.

## USER TIPS

The ADX51, an excellent choice to mic any kind of acoustic instrument, has a cardioid pick-up pattern which helps to eliminate sound from other instruments on stage from "bleeding" into the microphone. However, the ADX51 is much more sensitive than a dynamic mic and will pick-up sound from a greater distance. The acoustic nature of the instrument being miked along with how loud it is will determine how far the microphone should be from the sound source. For example, the ADX51 can be placed 1-2 feet above the cymbals of a drum kit and still pick up plenty of sound, whereas for a high-hat, the mic will need to be placed within 4-6 inches to be effective. Allow a distance of 2-3 feet between microphones to avoid phase issues.

Further miking techniques may be found at [www.audixusa.com](http://www.audixusa.com).