

# ADX12/18 Condenser Microphones

## OVERVIEW

The ADX12 and ADX18 are professional miniature gooseneck condenser microphones designed for applications such as podium, presentation, meetings and teleconferencing. Known for their clarity, excellent sound quality and ease of operation, the ADX12/18 will accurately capture and reproduce vocals from a comfortable distance.

The ADX12/18 are characterized with a uniformly controlled cardioid polar pattern, helping to isolate the speaker from other ambient noise in the room or on the stage. The ADX12/18 mics are also available in a hypercardioid polar pattern (models ADX12HC and ADX18HC) for tighter pick-up control. With a wide frequency range of 40 Hz - 18 kHz, the ADX12/18 provide natural sound with exceptional transient response.

The ADX12/18 mics are equipped with an integrated preamp circuitry built into the base of the XLR and may be mounted permanently via the supplied flange mount or with an optional flange shock mount (SMT1218R). The mics may also be used on a standard mic stand or in conjunction with the Audix ATS10 or ATS1 table stand with lighted on-off switch. Manufactured with very high standards and tight tolerances, the ADX12/18 features a machined brass body, field replaceable capsule and a variety of optional accessories. The ADX12/18 operate on phantom power of 18 - 52 Volts and are available in non-reflective black matte finish.

## MODELS VARIATIONS

**ADX12HC** - Hypercardioid black

**ADX18HC** - Hypercardioid black

## SUPPLIED ACCESSORIES

**TM1218** - Flange table mount

**WS1218** - External foam windscreen

## OPTIONAL ACCESSORIES

**ATS1** - Table Base with programmable on/off switch

**ATS1** - LOGIC - Same as above, with Logic

**ATS10** - Table Base with on/off switch

**SMT1218R** - Rubber insulated shockmount

**DCLIP** - Mic stand adapter

**APS 2** - Two-channel phantom power supply

## REPLACEMENT CAPSULES

**CPST12** - Cardioid in black

**CPST12H** - Hypercardioid in black



## FEATURES

- Natural accurate sound
- Interchangeable capsule
- Low profile design
- Dual gooseneck sections allows for precise positioning
- Low noise electronics
- Available with cardioid or hypercardioid polar pattern
- Designed, assembled, manufactured & tested in the USA

## APPLICATIONS

- Pulpit, podium
- Board meetings, teleconferencing
- Video, recording
- Room security or monitoring



ATS1



APS2



SMT1218R



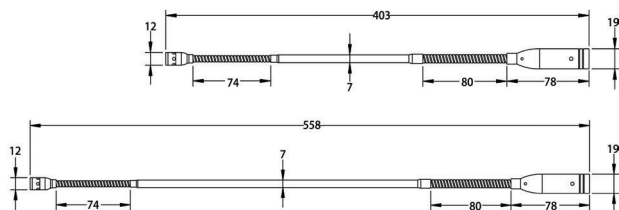
DCLIP

# ADX12/18

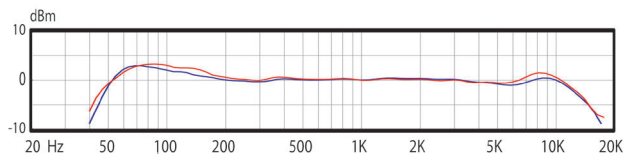
## SPECIFICATIONS

Transducer Type	Pre-Polarized Condenser
Frequency Response	40 Hz - 18 kHz
Polar Pattern	Cardioid/Hypercardioid
Output Impedance	150 ohms
Sensitivity	24 mV (C) / Pa @ 1k 30 mV (HC) / Pa @ 1k
Equivalent Noise Level	28 dB (A weighted)
Signal to Noise Ratio	66 dB
Maximum SPL	≥120 dB
Power Requirements	18 - 52 Volts 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	Machined Aluminum / Black Finish
Weight	113 g / 4 oz (ADX12) 159 g / 5.6 oz (ADX18)
Length	403 mm / 16 in (ADX12) 558 mm / 22 in (ADX18)

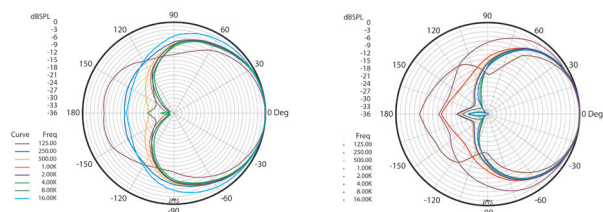
## DIMENSIONS (mm)



## 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 of the condenser type with a modular threaded capsule. The microphone shall be available in a cardioid and hypercardioid polar pattern and shall have a base terminating in a male XLR plug. The microphone shall operate on 18 - 52 Volts phantom power. The microphone shall have a sensitivity of 24mV/ Pa and a nominal impedance of 150 ohms at 1 kHz. The microphone shall have a maximum SPL level of ≥120 dB and shall be fabricated from aluminum tubing, brass fittings, and coiled steel gooseneck material. The microphone capsule shall be 12 mm and available in two lengths: 403 mm and 558 mm. The microphone shall be the Audix ADX12 and ADX18.

## OPERATION AND MAINTENANCE

The ADX12/18 are low impedance microphones and should be plugged into a "mic level" input on your console, mixer, or recording device. The ADX12/18 require phantom power and will NOT operate without phantom power voltage (minimum of 18 - 52 Volts) which is available on most professional mic preamps and mixing devices. Avoid plugging or unplugging the microphone from a PA system unless the channel is muted or the volume of the system turned down. Failure to do so may result in a loud "popping" noise which could seriously damage the speakers in the PA system.

**Changing Capsules:** Capsules can easily be interchanged by simply screwing them on and off.

**Important:** The small copper lead on the housing must make contact with the small pin underneath the capsule in order to work. The lead contact can be stretched gently by hand if necessary.

**Permanent Installation:** The ADX12/18 can be conveniently plugged into any standard XLR female connector or receptacle. For permanent installation onto a table, podium or flat surface, use the supplied flange mount. The base of the ADX12/18 will fit securely into the flange and a standard XLR-f microphone cable or panel jack may be used. If further shockmount or isolation is required, it is recommended to use the optional SMT1218R rubber shockmount which requires boring out a 2 inch hole.

## USER TIPS

**Speaking distance and angle of microphone:** The two flexible portions of the microphone will enable you to position the mic according to height and speaking style of the user. In general, the microphone can be angled at 60-75 degrees towards the speaker and be 12-16 inches away from the mouth. A shorter distance can be used for a fuller sound or for weaker voices, but avoid getting too close to the microphone element.

**Windscreen:** The supplied windscreen should be used to help minimize pop noise plosives and breath noise. If breath or pop noise appears to be excessive, move farther away from the microphone or position the speaker over the top of the microphone rather than directly into it. Using with Table Stand: For ultimate flexibility and portability, the optional AT51, AT51 LOGIC or the ATS 10 heavy duty table stands are available. Since the electronics for the ADX12/18 are built right into the base of the microphone, all that is necessary is to plug the mic directly into the table stand connector on the top of the base. The mic cable will be plugged into the back of the base and connected to a low impedance mic level input on the mixer or recording device. Remember that phantom power is required in order to operate. There is a noiseless 2 position on-off switch located in the table stand. The down position is 'on' and the up position is 'off'. The LED indicator light will be lit when the mic is turned on. This is not a push-to-talk system so you need not hold down the switch, just push and click to on or off position. A standard XLR-XLR microphone cable can be used to connect the ATS10 to the mixer or recording device. For programmable switching use the AT51 or AT51L (Logic).

**To use on microphone stand:** The ADX12/18 may be used on any standard microphone stand by using the DCLIP. The XLR base of the microphone will snap securely into the DCLIP and can be used at any angle.

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