

# ADX212/218 LOW PROFILE GOOSENECK MICROPHONES

## overview

▶ The ADX212/218 are professional miniature condenser microphones designed for speech and vocal applications in live sound and broadcast. Most commonly used for pulpits, podiums, board room meetings, and teleconferencing, the ADX212/218 mics feature dual flexible goosenecks at both the base and top of the system, allowing for maximum positioning capabilities.

With a smooth uniform response over a frequency range of 40 Hz – 18 kHz, the ADX212/218 microphones provide a warm, rich sound not typical of microphones this size. The stock microphone employs a cardioid capsule, however, these microphones are also available with a hypercardioid capsule (ADX212-HC, ADX218-HC).

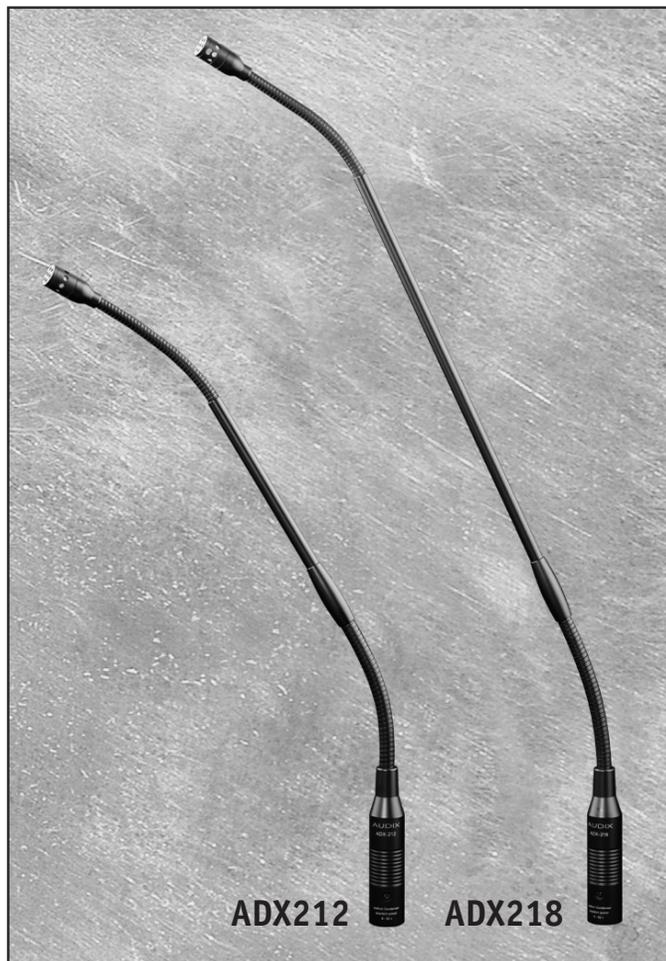
The ADX212/218 may be permanently installed into a podium or table top by using the flange mount adapter provided or the optional SMT1218R rubber insulated shockmount system. The ADX212/218 may also be used with the optional ATS-10 heavy duty table stand featuring a lighted on-off switch.

Metal housings for the ADX212/218 are fabricated from high quality aluminum and brass and finished with a non-reflective durable e-coat. The capsule, FET assembly, and preamp circuitry are all field-replaceable components.

The ADX212/218 requires phantom power voltage (9-52 volts), however, if phantom voltage is not available, the optional Audix APS-2 phantom power supply is suggested. The ADX212/218 microphones can also be used with any standard mic stand by using the optional D-Clip to hold the base of the microphone.

## specifications

▶ Transducer Type	Condenser (pre-polarized)
Frequency Response:	
Cardioid / Hypercardioid	40 Hz - 18 kHz
Polar Pattern	cardioid, hypercardioid
	depending on choice of capsule
Output Impedance	250 Ohms balanced
Open Circuit Sensitivity:	
Cardioid / Hypercardioid	29 mV
Equivalent Noise Level	28 dB (A weighted)
Signal to Noise Ratio	66 dB (ref 1k @ 1 Pascal)
Power Requirements	9 - 52v phantom
Maximum SPL	120 dB
Cable/Connector	3 pin gold plated male
	XLR connector
Polarity	Positive voltage on pin
	2 relative to pin 3 of
	output XLR connector
Housing	Machined Aluminum and Brass
Weight	3.8 oz/107 grams (ADX212)
	4.2 oz/119 grams (ADX218)



## applications

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

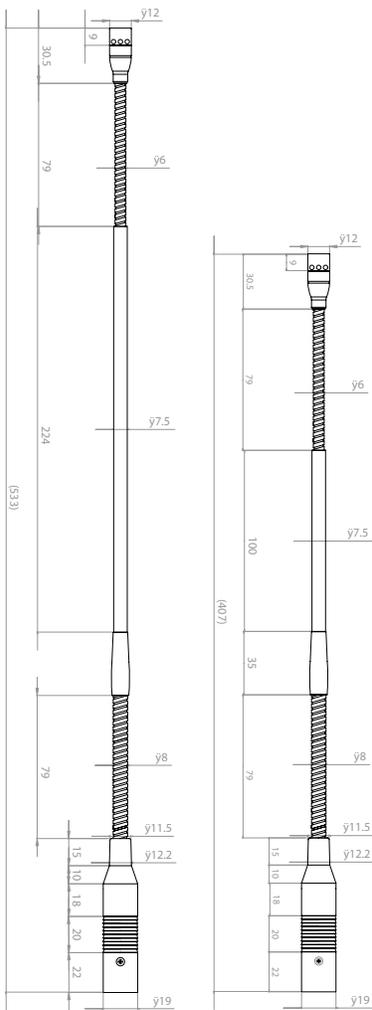
The optional ATS-10 heavy duty table stand features a noiseless 2 position on-off switch and is ideal for podium applications.



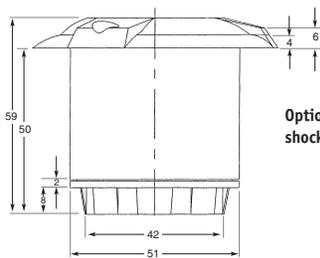
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PERFORMANCE IS EVERYTHING

ADX212/218 GOOSENECK MIC

# ADX212/218 LOW PROFILE GOOSENECK MICROPHONES

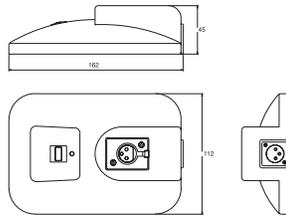


All measurements are in millimeters



Optional rubber insulated shockmount SMT1218R

Optional table stand ATS-10



### Replacement Capsules

- ▶ ADX-c cardioid
- ▶ ADX-hc hypercardioid

### Supplied Accessories

- ▶ Form fitted foam windscreens: (WS21218)
- ▶ Flange table mount: (TM1218)

### Optional Accessories

- ▶ Table stand: (ATS-10)
- ▶ Rubber insulated shockmount: (SMT1218R)
- ▶ Mic stand adapter (D-Clip)
- ▶ 2-channel phantom power supply (APS-2)

### Choice of Elements:

The stock cardioid element (ADX-c) is the most commonly used providing a good balance of full sound and rejection of ambient noise from stage and monitors. The hypercardioid element (ADX-hc) is the best choice for maximum gain before feedback and high rejection of ambient noise.

### Recording:

If there are no PA speakers or monitors to contend with, there is much more latitude with mic choice and placement when recording is involved. Here it is even more important to find the right blend between the "room sound" and the instrument or voice being recorded. The ADX212/218 is a remarkably good sounding mic for musical performances and orchestras. In most cases using a boom stand is recommended and some experimentation with placement will be necessary.

### Operation and Maintenance:

Condenser microphones as a general rule are much more sensitive and reactive than dynamic microphones and should be handled with care. Avoid extreme temperatures wherever possible. Moisture and high humidity can adversely effect the performance of the microphone and cause permanent damage. For most applications use the foam windscreens provided with your microphone to help reduce wind noise or popping. When not in use, please store mics securely at room temperature.

### Changing Capsules:

Capsules can easily be interchanged by simply screwing them on and off the capsule housing. 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 ADX212/218 can be conveniently plugged into any standard XLR-female receptacle. For permanent installation onto a table, podium or flat surface, use the supplied flange shockmount. The base of the ADX212/218 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.

### Podium:

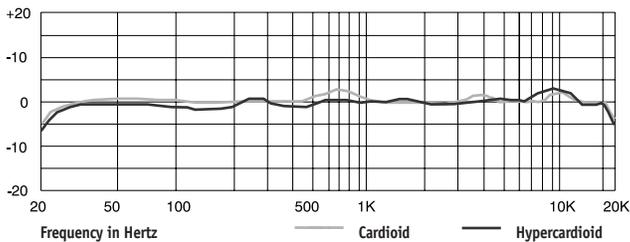
For the lowest profile, the ADX212 is the best choice as it can practically be hidden from view. The mic can be angled at 60-75 degrees towards the speaker and be 12-16 inches away or closer for a fuller sound. In cases where several different speakers may be using the same microphone, the ADX218 offers more flexibility as to the angle of the mic and the distance to the source. The position of the mic can be easily changed to adapt to the speaker. Turn down the volume in your PA system when making these adjustments, if possible. Many speakers prefer the microphone to be very close and in these cases, it is important to use the provided windscreens as it will help to reduce popping noises.

### Using with ATS-10 Table Stand:

For ultimate flexibility and portability, the optional ATS-10 heavy duty table stand is ideal. Since the electronics for the ADX212/218 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 must be available 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 ATS-10 to the mixer or recording device.

In general, when using multiple ADX212/218's for live sound, there should be a distance of 4-6' between mics. Microphones in close proximity to each other can cause phase cancellation and be more prone to feedback problems.

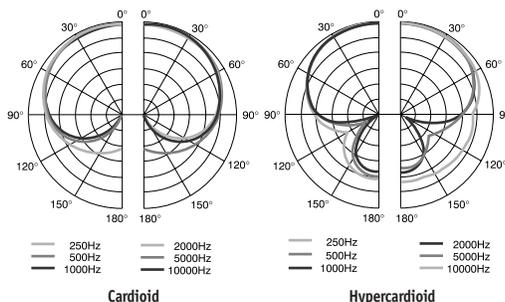
### Typical Frequency Response



The frequency response curve shown (measuring tolerance at  $\pm 3\text{dB}$ ) and polar pattern correspond to typical production run specifications for this microphone.

**WARNING:** The ADX212/218 has a fixed-charge, permanently polarized back plate. This, along with voltage from a phantom power supply causes the element to be fully charged. For this reason, DO NOT PLUG OR UNPLUG THE MICROPHONE INTO OR OUT OF THE PA SYSTEM UNLESS THE VOLUME OF THE SYSTEM IS TURNED DOWN. Failure to do so may result in a loud "popping" sensation which could seriously damage the speakers in the PA system. Power requirements are 9 - 52 Volts Phantom Power. Most current mixing boards are equipped with phantom power, however, if phantom power is not available please use the Audix APS-2 AC phantom power supply as your interface between the microphone and the mixing board.

### Polar Charts



CBT Supply, Inc. [www.classroomplanet.com](http://www.classroomplanet.com)

800 770 7042

Audix Corporation PO Box 4010, Wilsonville, OR 97070

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**SERVICE AND WARRANTY:** This microphone is warranted for a period of 1 year from any and all manufacturing defects. Should your microphone fail in any way, please contact the Audix Service department at 503-682-6933. A Return Authorization number is required before sending back any products. Specifications are subject to change without written notice.