

# ADX-20i MINIATURE INSTRUMENT CONDENSER MICROPHONE

## overview

The ADX-20i is a pre-polarized condenser microphone designed to handle a wide variety of clip-on applications. The ADX20i is sonically superior as well as aesthetically pleasing and is ideally suited for saxophone, trombone, trumpet and other brass instruments.

With a smooth uniform response over a frequency range of 40 Hz - 20 kHz, the ADX-20i provides a rich, warm sound not typical of microphones this size. It is machined from solid brass and has a low reflective black e-coat finish.

The ADX-20i operates on phantom power (9-52 volts) with the preamp module provided (APS-910). It may be used in battery mode with optional phantom power adapter (APS-911). The ADX-20i can be utilized with a wireless system. Depending on the brand of wireless and the connector configuration of the instrument body pack, the ADX-20i connector would need to be modified accordingly.

Low noise electronic circuitry, and balanced low impedance-output allow for interference free performance even with long cable runs.

## specifications

<b>Transducer Type</b>	Condenser (pre-polarized)
<b>Frequency Response</b>	40 Hz - 20 kHz
<b>Polar Pattern</b>	Cardioid Hypercardioid (ADX20i-hc)
<b>Output Impedance</b>	250 Ohms balanced
<b>Open Circuit Sensitivity</b>	5.2 mV
<b>Equivalent Noise Level</b>	29 dB (A weighted)
<b>Signal to Noise Ratio</b>	65 dB (ref 1k @ 1 Pascal)
<b>Power Requirements</b>	9 - 52v phantom
<b>Maximum SPL</b>	130 dB
<b>Cable/Connector</b>	Shielded 6' cable terminating to a miniature 3 pin XLR-f
<b>Phantom Adapter</b>	mini XLR male - XLR male
<b>Polarity</b>	Positive voltage on pin 2 relative to pin 3 of output XLR connector
<b>Housing</b>	Machined Brass
<b>Gooseneck</b>	Flexible steel
<b>Weight</b>	1.7 oz/4.7 grams (without cable)

## ADX20i CONDENSER MIC



Sax



Trumpet



Trombone

## applications

- › Saxophone, trumpet, trombone
- › Clips on to hardware, stands, cabinets for "hard to mic" areas or instruments
- › Room ambience microphone for recording or broadcast

## features

- › High tension spring clamp keeps mic in place
- › Multi-position gooseneck
- › Highly accurate sound reproduction
- › Available in hypercardioid version (ADX-20i/hc)

**AUDIX**  
PERFORMANCE IS EVERYTHING

# ADX-20i MINIATURE INSTRUMENT CONDENSER MICROPHONE

**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 whenever possible. Moisture and high humidity can adversely effect the performance of the microphone and cause permanent damage. For outdoor use, consider using the foam windscreen provided to reduce wind noise or popping. When not in use, please store your microphone in the pouch provided at room temperature.

**Capsule replacement:** The ADX-20i is designed with a field replaceable threaded capsule. For this reason, it is possible to carry spare capsules to insure against the unexpected. Simply unscrew the capsule in order to repair or replace. Call the Audix service department direct for any repair work.

**Recording:** The ADX-20i can be used effectively to record a wide variety of brass and acoustic instruments. For brass instruments, the mic should be aimed towards (but not inside) the bell. Some experimentation may be involved to get the proper blend of instrument and room sound. For live recording, where more isolation of the instrument is desired, the hypercardioid capsule can be used.

**Live Sound:** For brass instruments, the ADX-20i can be used in much the same fashion as with recordings. Simply point the mic towards the inside of the bell. With trumpet, where the sound pressure levels can be severe, angle the mic off center so it is not pointing directly into the bell. The ADX-20i is an excellent utility mic and can be used creatively around cymbals, percussion toys, and acoustic instruments. Do not hesitate to clip it on a mic stand and try it for multiple applications.

When striving for greater separation of sound, and higher gain before feedback, the hypercardioid capsule may be more helpful (model ADX-20i/hc).

**In general, when using multiple ADX-20i mics for live sound, try and position the mics at least 2-3 feet apart from each other.**

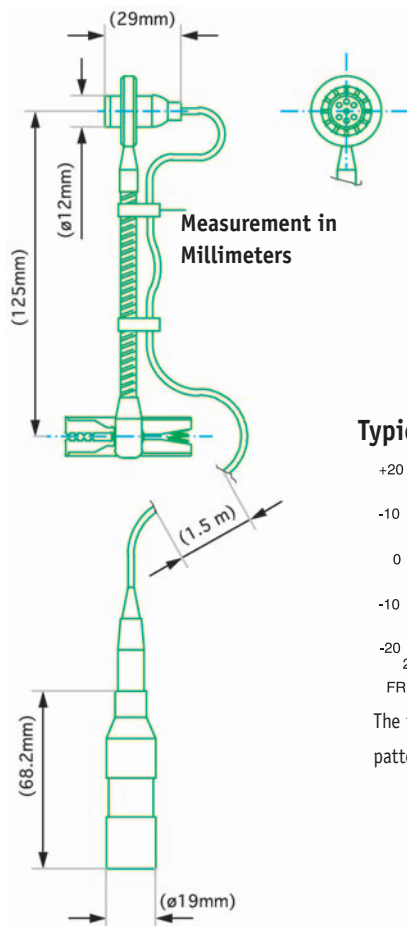
## Supplied Accessories

- ▶ Gooseneck clip with integral shock mount (MC-20i)
- ▶ 9-52 volt phantom power adapter (APS-910)
- ▶ foam windscreen (WS-20)
- ▶ Cordura carrying pouch (P1)

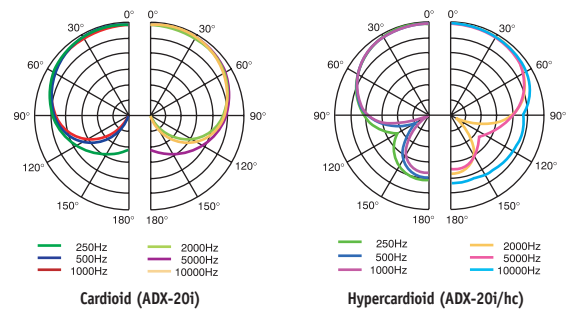
## Optional Accessories

- ▶ Battery / phantom power adapter with on-off switch and roll-off (APS-911)

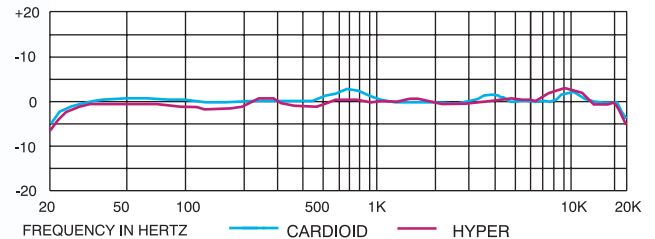
## Measurements



## Polar Charts



## 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 ADX-20i has a fixed charged, 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" noise sensation which could seriously damage the speakers in the PA system.

**OUTPUT:** The ADX-20i output is balanced across Pins 2 (positive) with respect to Pin 3, with the shield connection to Pin 1. It is recommended to use a high quality microphone cable with 3 pin XLR connectors.

## 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.

**CALL: 503-682-6933 FAX: 503-682-7114**  
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