

# VX-10

# HAND-HELD VOCAL CONDENSER MICROPHONE

## overview

The VX-10 is a true condenser microphone designed to set new performance standards in the areas of live sound and broadcast applications.

With a smooth uniform response over a frequency range of 40 – 20k Hz, the VX-10 is highly sensitive to transient response and will reproduce vocals and speech with exceptional detail and realism. The VX-10 will handle close miking with minimal proximity effect and will not lose signal if the user is slightly off-axis from the front of the microphone. A cardioid pattern provides excellent gain before feedback and, even with its extended low end response, the VX-10 offers sonic clarity without "boominess" in the lower mids – usually difficult to attain with live vocals.

The VX-10 operates on phantom power of 48 – 52 volts and will achieve optimum results with a high quality mic preamp. Low noise electronic circuitry, low impedance, and balanced output allow interference-free performance even with long cable runs.

## specifications

Transducer Type	Condenser
Frequency Response	40 Hz - 20 kHz
Polar Pattern	Cardioid
Output Impedance	250 Ohms
Open Circuit Sensitivity	23 mV (ref 1k @ 1 Pascal)
Equivalent Noise Level	19 dB (A weighted)
Signal to Noise Ratio	73 dB (ref 1k @ 1 Pascal)
Power Requirements	48 - 52v phantom
Maximum SPL	138 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	Die cast zinc body with brass capsule housing
Weight	11.24 oz / 318.6 grams
Finish	Black E-coat

## VX-10 CONDENSER MIC



## applications

- › Lead vocals
- › Background vocals
- › Speech
- › Live performance and live broadcasts  
*Excellent for use with in-ear monitors*
- › On air announce microphone
- › Studio vocals
- › Acoustic instruments  
*( flute, strings, guitar, piano )*



Lead  
Vocals



Group  
Vocals



Acoustic  
Guitar



Piano



Flute



Strings

**AUDIX**  
PERFORMANCE IS EVERYTHING

# VX-10 HAND-HELD VOCAL 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 wherever possible. Moisture and high humidity can adversely affect the performance of the microphone and cause permanent damage. For outdoor use consider using an outer foam windscreen to help reduce wind noise or popping. When not in use, please store your mic in the pouch or case provided at room temperature.

**Capsule replacement:** The VX-10 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.

### Live Sound:

For speech: The VX-10 may be placed directly in front or slightly below the speaker's mouth. An effective working range is between 6 – 8 inches for clear, intelligible speech. The VX-10 provides exceptional output and may be adjusted to accommodate the style of a particular speaker.

For powerful speakers, an external foam windscreen may be required to reduce popping noises.

**Solo Vocal:** The VX-10 is designed to have minimal handling noise and may be used on a microphone stand or hand-held. The VX-10 is highly sensitive and will accommodate distances of 1" to 12" of distance to the performer's mouth while still maintaining a fairly uniform response. Unlike working with a dynamic microphone, the bass frequencies of the VX-10 will diminish less dramatically with distance away from the mic. The vocalist may have to experiment in order to find their optimum working range with the VX-10. For stage monitors, avoid pointing the back end of the mic directly into the stage monitor. Instead, try and set the microphone at an angle parallel to the floor, thereby putting the angle of the mic on a different plane with the angle of the monitors.

**Background vocals:** For purposes of gain before feedback and to avoid phase cancellation, there should be a distance of at least three times greater than the distance of the microphones to the performers (example, a working distance of 8" would mean about 2 feet between microphones). More powerful vocals may require more distance from the microphone element to the vocalist's mouth in order to avoid distortion, whereas quiet vocals may require a much shorter distance.

**Recording:** The VX-10 technology is derived from the SCX series, which was developed specifically for high quality recording applications. For this reason, the VX-10 can be used successfully to record practically any acoustic instrument. Simply point the microphone towards the sound source, being careful that the mic is the correct distance in order to avoid distortion. Because of the smaller diaphragm and cardioid pick-up pattern, close miking techniques may be employed to minimize the room sound and maximize the sound of the instrument.

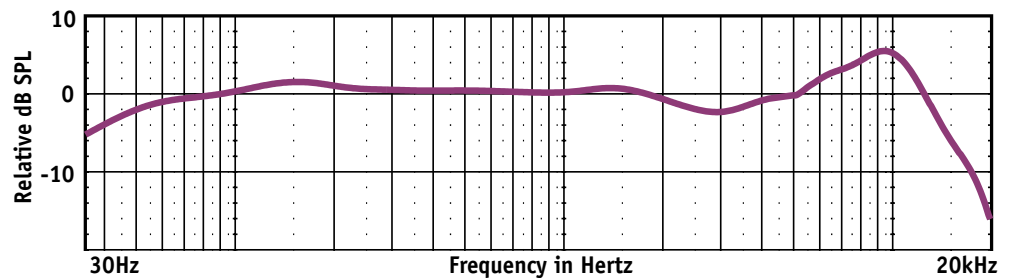
### Supplied Accessories

- ▶ CVX10 - Foam lined wooden carrying case
- ▶ MC1 - High quality nylon mic clip adjustable through 180 degrees with a standard 5/8 inch -27 thread. (Note: metal adapter also supplied to accommodate European standard threads).
- ▶ P1 - Cordura carrying pouch.

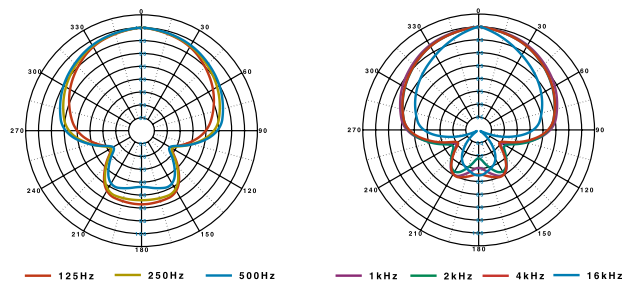
### Optional Accessories

- ▶ GR357 - Rounded top steel mesh grill ball with integral pop filter
- ▶ WS-10 - External acoustic foam windscreen
- ▶ APS-2 - 2 channel phantom power supply

### Typical Frequency Response

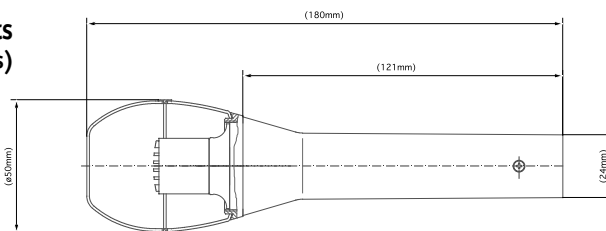


### Polar Charts



The frequency response chart (above) and the polar patterns represent a typical production run for this microphone.

### Measurements (in Millimeters)



### WARNING:

The VX-10 requires 48-52 Volts of phantom power to fully charge the element. 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.

Power requirements are 48-52 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 power supply to interface between the microphone and the mixing board.

### OUTPUT:

The VX-10 output is balanced across Pin 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 under warranty 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**  
**www.audixusa.com**

Audix Corporation 9400 SW Barber Street, Wilsonville, OR 97070. In Canada, Cabletek Electronics LTD, 604-942-1001 fax 604-942-1010  
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