

# CX-112 STUDIO CONDENSER MICROPHONE

## OVERVIEW:

The CX-112, a large diaphragm condenser microphone with a contemporary design and excellent performance characteristics, is an exceptional tool for professional audio production, project studios and live stage performances. Delivering a smooth, uniform frequency response from 20 Hz - 20 kHz, the CX-112 offers a rich, full bodied sound delivered by its one-inch capsule.

The CX-112 is equipped with a bass roll-off filter to help eliminate rumble and hum in the lower frequencies and a -10 dB pad to achieve higher sound pressure levels without distortion.

A perfect candidate for a wide variety of acoustic instruments, the CX-112 will handle vocals, string sections, guitar, ensembles, guitar cabinets, ambient room miking and live stage.

The CX-112, which is designed with discreet low noise preamp circuitry, operates on phantom power of 48-52 volts. Optimum results will be achieved by using the CX-112 with a high quality mic preamplifier and premium quality microphone cable.

## SUPPLIED ACCESSORIES:

Adjustable one piece metal clip (MC-112)  
Foam-lined wood case (CASE-WOOD)

## OPTIONAL ACCESSORIES:

WS-112 - External foam windscreen  
APS-2 - Two-channel phantom power supply  
PD-133 - Pop Diffuser  
TRIPOD - Tripod Stand  
SMT-CX112 - Isolation shockmount

## MODEL VARIATIONS:

CX-112 MP - Matched stereo pair.  
*Allows for a wide variety of stereo miking techniques*



## FEATURES:

- Gold-sputtered diaphragm
- Low noise electronics
- 10 dB pad and bass roll-off
- Rich warm tones - ideal for digital recording
- High power handling of 145 dB SPL
- Adjustable metal clip allows for secure positioning

## APPLICATIONS:

- Studio vocals, lead and backing
- Voice over
- Choir
- Ambient room mic
- Drum overheads
- Orchestra
- Bells, chimes, marimba, vibes
- Acoustic instruments (piano, sax, strings, guitar, flute)
- Electric guitar cabs



CX-112 on SMT-CX112



MC112



PD133 with CX-112



APS-2

**SPECIFICATIONS:**

<b>Transducer Type</b>	<b>Condenser</b>
<b>Capsule Technology</b>	<b>1.07"/27mm Gold Vapor Diaphragm</b>
<b>Frequency Range</b>	<b>20 Hz - 20 kHz (+/- 3 dB)</b>
<b>Polar Pattern</b>	<b>Cardioid</b>
<b>Output Impedance</b>	<b>200 Ohms</b>
<b>Sensitivity</b>	<b>14 mV / Pa @ 1k</b>
<b>Noise Floor</b>	<b>18 dB (A weighted)</b>
<b>Signal to Noise Ratio</b>	<b>76 dB</b>
<b>Power Requirements</b>	<b>48-52 volts phantom</b>
<b>Maximum SPL</b>	<b>≥145 dB</b>
<b>Dynamic Range</b>	<b>127 dB</b>
<b>Cable/Connector</b>	<b>3 pin gold plated male XLR connector</b>
<b>Polarity</b>	<b>Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output XLR connector</b>
<b>Housing / Finish</b>	<b>Brass / Black satin</b>
<b>Weight</b>	<b>450 g / 16 ounces</b>
<b>Length</b>	<b>163 mm / 6.42 inches</b>

**ARCHITECTS AND ENGINEERS SPECIFICATIONS:**

The microphone shall be of the condenser type with a cardioid polar pattern. The microphone shall operate on 48-52 volts phantom power and the nominal output impedance shall be equal to 200 ohms at 1 kHz. The microphone shall have a sensitivity of 14 mV / Pa and shall have a maximum SPL level of ≥145 dB with a THD of 0.5% when the -10 dB pad is engaged. The microphone shall have a fine steel mesh grill and a brass body 50 mm in diameter and 163 mm in length. The microphone shall be the Audix CX-112.

**OPERATION:**

The CX-112 is a low impedance microphone and should be plugged into a "mic level" input on your console, mixer, or recording device. The CX-112 requires phantom power and 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, you will have to procure a phantom power supply (such as the Audix APS-2).

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.

**USER TIPS:**

**The correct side:** Note that the front of the microphone element is on the same side as the printing. This side of the microphone should be facing towards the sound source.

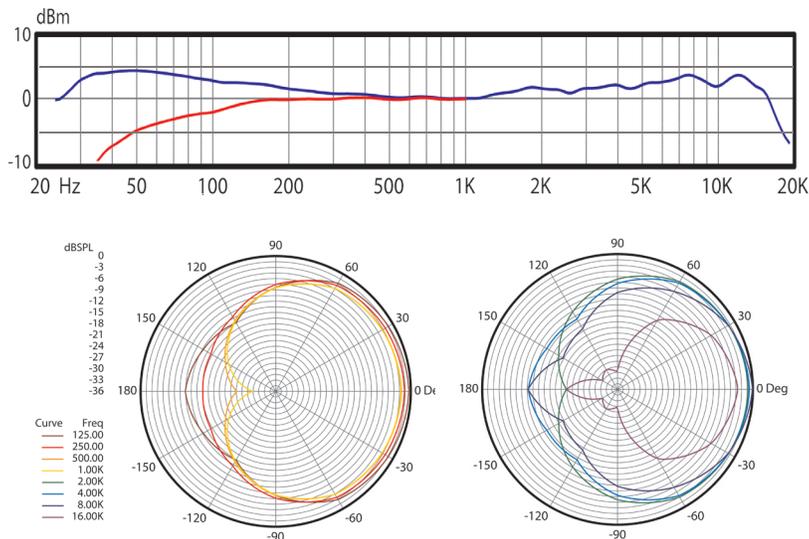
**The Switches:** The CX-112 is equipped with 2 slider switches that control the -10 dB pad and bass roll-off. They are located directly above the Audix logo on the front of the mic.

**-10 dB Pad:** The -10 dB switch is located above the Audix logo and to the right. When the switch is all the way to the left, (the 0 dB position), it is NOT engaged, and the mic is at its normal output level. The -10 dB pad allows you to change the sensitivity (output level) of the microphone right at the capsule. This is much more effective than padding the mic at the preamp stage at the console or mixing device. The net result is the ability to record very high sound pressure levels before distortion.

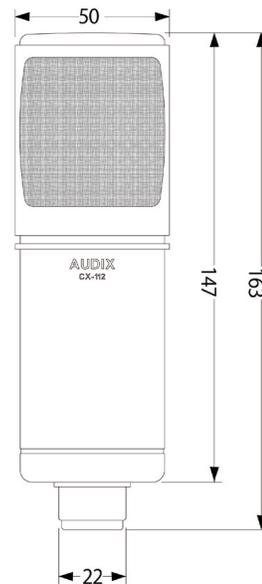
**Bass Roll-Off:** This feature allows you to change the frequency response of the CX-112 and gently diminish the bass response from 300 Hz and below. The bass roll-off (also referred to as "attenuation") is the switch on the left-hand side above the Audix logo. When the switch is all the way to the left (the "Flat" position), the bass roll-off is NOT engaged. In some cases, you will want to roll-off or filter out the bass frequencies from your recording or performance. These frequencies can be controlled by external EQ, however, the advantage of having them on the microphone is it is much cleaner to control these frequencies at the capsule level. In the case of live recording, the bass roll-off will help to eliminate unwanted boominess or rumble coming from other instruments on the stage (for example, the bass and bass drum). In the case of a recording environment, it will depend on the instrument or voice being recorded. The roll-off can help to eliminate plosives or popping from a vocal or it may be utilized to clean up the excessive bass frequencies from certain instruments. In any case, it is recommended to try "with" and "without" roll-off before making any final decisions.

\*Further miking techniques can be found on our website at [www.audixusa.com](http://www.audixusa.com)

**FREQUENCY / POLARS:**



**DIMENSIONS (mm):**



\*\*\*All specifications subject to change without notice.

**SERVICE AND WARRANTY:**  
This microphone is under warranty for a period of 3 years 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 returning any products.

**CARE AND MAINTENANCE:**  
The CX-112 is manufactured to exacting specs with roadworthy construction. However, the capsule is highly sensitive and should be handled with care. Avoid extreme temperatures and be sure to store your microphone in the pouch provided when not in use. Moisture of any kind can adversely affect the sound and performance of your microphone.

To register your microphone, please visit [www.audixusa.com](http://www.audixusa.com)



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