

CX-212B MULTI-PATTERN STUDIO CONDENSER

OVERVIEW:

The CX-212B is a multi-pattern, dual diaphragm condenser microphone with a contemporary design and excellent performance characteristics. It is an exceptional tool for professional audio production, project studios and live stage performances.

Delivering a smooth, uniform frequency response from 30 Hz - 20 kHz, the CX-212B offers a choice of three polar patterns: cardioid, omnidirectional, and figure 8. Additionally, the CX-212B is equipped with a bass roll-off filter to help eliminate rumble in the lower frequencies.

The CX-212B, for use in sound pressure levels up to 132 dB, is ideal for a wide variety of acoustic instruments, vocals, string sections, ensembles and ambient room miking. The CX-212B, which is designed with discreet low noise preamp circuitry, operates on 48 volts phantom power. For optimum results use the CX-212B with a high quality mic preamplifier and microphone cable.



SUPPLIED ACCESSORIES:

- Adjustable one piece metal clip (MC-112)
- Isolation shockmount (SMT-CX112)
- Aluminum road case (CASE-CX)

OPTIONAL ACCESSORIES:

- WS-112 - External foam windscreen
- APS-2 - Two-channel phantom power supply
- PD-133 - Pop Diffuser
- TRIPOD - Tripod mic stand

MODEL VARIATIONS:

CX-212 MP - Matched stereo pair.

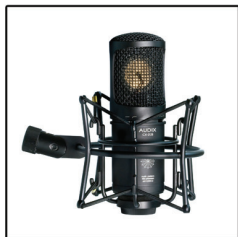
Allows for a wide variety of stereo miking techniques

FEATURES:

- Multi-pattern: cardioid, omni, figure-8
- 1.07" gold vapor dual diaphragm
- Low noise electronics
- Rich, warm tones – ideal for digital recording
- Heavy duty isolation shockmount included
- Road case for mic and shockmount
- 3 year warranty

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 cabinets



CX-212 on SMT-CX112



MC112



PD133 with CX-212



APS-2

SPECIFICATIONS:

Transducer Type	Condenser
Capsule Technology	1.07"/27mm Gold Vapor Diaphragm
Frequency Range	30 Hz - 20 kHz
Polar Pattern	Multi-Pattern
Output Impedance	200 Ohms
Sensitivity	Omni - 11 mV / Pa @ 1k Cardioid - 16 mV / Pa @ 1k Figure 8 - 11 mV / Pa @ 1k
Equivalent Noise Floor	18 dB (A weighted)
Signal to Noise Ratio	76 dB
Power Requirements	48-52 volts phantom
Maximum SPL	≥132 dB
Dynamic Range	110 dB
Cable/Connector	3 pin gold plated male XLR connector
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output XLR connector
Housing / Finish	Brass / Black satin
Weight	480 g / 17 ounces
Length	172 mm / 6.78 inches

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS:

The microphone shall be of the condenser type with cardioid, omni-directional, and figure 8 polar patterns. 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 11 mV / Pa in the omni mode, and 16 mV / Pa in the cardioid and 11 mV / Pa in the figure 8 mode. The microphone shall have a maximum SPL level of ≥132 dB with a THD of 0.5%. The microphone shall have a fine steel mesh grill and a brass body 50 mm in diameter and 172 mm in length. The microphone shall be the Audix CX-212B.

OPERATION:

The CX-212B is a low impedance microphone and should be plugged into a "mic level" input on your console, mixer, or recording device. The CX-212B 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 APS2).

Avoid plugging or unplugging the microphone from the 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.

Multi-patterns: The switch on the right hand side of the microphone allows you to change the polar patterns of the microphone as follows:

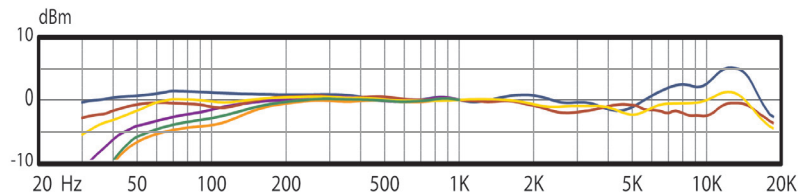
- - The switch in the furthest left position is the "omni" pattern. This pattern means that the mic is wide open and will pick up a full 360 degree radius in all directions.
- ◐ - The switch in the middle position is "cardioid". This pattern means the microphone will pickup from the front of the microphone in a heart shaped pattern, rejecting sound from the rear side of the microphone.
- ⊗ - The switch in the furthest right position is "figure 8". This pattern means that the microphone will pickup from both the front and rear of the microphone in a figure 8 pattern, hence the name "Figure 8."

BASS ROLL-OFF:

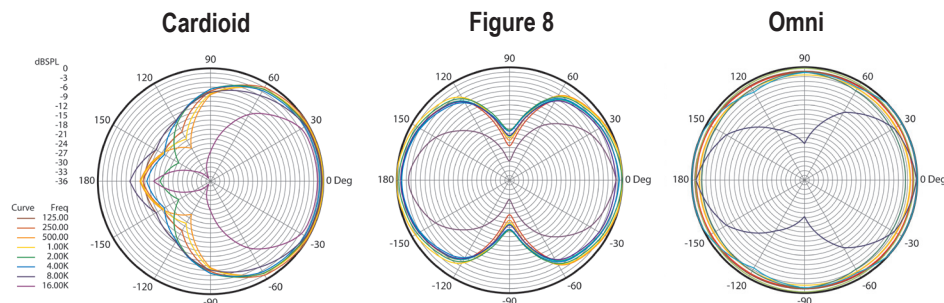
This feature allows you to change the frequency response of the CX-112B and gently diminish the bass response from 300 Hz and below. The bass roll-off (also referred to as "attenuation") is the switch on the left-hand side above the Audix logo. When the switch is all the way to the left (the "Flat" position), 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 may be found on our website at www.audixusa.com

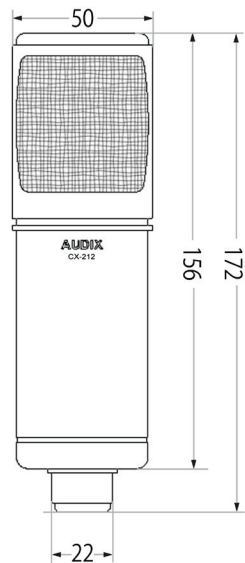
FREQUENCY / POLARS:



- CX212 Cardioid
- CX212 Figure 8
- CX212 Omni
- CX212 Cardioid roll-off
- CX212 Figure 8 roll-off
- CX212 Omni roll-off



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-212B is manufactured to exacting specs with road worthy 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



www.audixusa.com Call: 503-682-6933 Fax: 503-682-7114
Audix Corporation 9400 SW Barber Street, Wilsonville, OR 97070