

# M1250B MINIATURE CONDENSER MICROPHONE

## OVERVIEW:

The M1250B, a miniaturized condenser microphone with a fully integrated preamp and detachable cable, has complete immunity from RF interference caused by cell phones and GSM devices. The M1250B, which is equipped with a cardioid capsule, is also available with hypercardioid, omni or shotgun capsules, giving the microphone the unique ability to be used in a wide variety of live, studio and broadcast applications.

The M1250B is available with a wide array of clips and accessories allowing the microphone to be used for drums, percussion, musical instruments, overhead stage miking, podiums, conferences, and presentations.

## SUPPLIED ACCESSORIES:

25' cable with mini-XLRf - XLRm connectors (CBL-M25)

Mic stand adapter (MC-MICRO)

Hanging clip (MC-HANGER)

External foam windscreen (WS1218)

## OPTIONAL ACCESSORIES:

MICROBOOM - 50-inch carbon fiber boom arm with clutch assembly

SMT-MICRO - Stand adapter with rubber insulated shockmount

DCLAMP-MICRO - Lug mount adapted for hand percussion instruments with shockmount ring

DVICE-MICRO - Drum rim mount attachment with shockmount ring

DFLEX-MICRO - Wide jaw butterfly clip with shockmount ring

MC20i - Clamp on clip for Saxophone with shockmount ring

MGN-6 - 6-inch gooseneck with base terminating in standard XLRm

MGN-12 - Same as MGN-6 in 12 inch length

MGN-18 - Same as MGN-6 in 18 inch length

ATS-10 - Heavy duty shock absorbant table stand

## MODEL VARIATIONS:

M1250B-W - Same as above in white

M1250B-HC - Same as above with hypercardioid capsule

M1250BW-HC - Same as above with hypercardioid capsule in white

M1250B-O - Same as above with omni-directional capsule

M1250BW-O - Same as above with omni-directional capsule in white

M1250B-S - Same as above with supercardioid (shotgun) capsule



\*with RFI immunity\*

## FEATURES:

Small, lightweight, low profile

Miniaturized integrated preamp circuitry

No external power adapter needed

12 mm gold vapor diaphragm

Immune to RF interference

Extremely low noise, high SPL handling

Available with a cardioid, hypercardioid, omni or supercardioid capsule

## APPLICATIONS:

Overhead mic for choir, group vocal

Acoustic instruments

Ambient room miking

Symphonic area miking

Speech / Presentation

Cymbals / Percussion



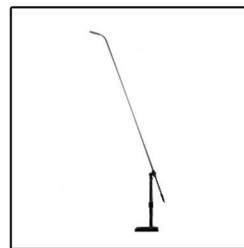
DFLEX-MICRO



SMT-MICRO



MC-HANGER



MICROBOOM



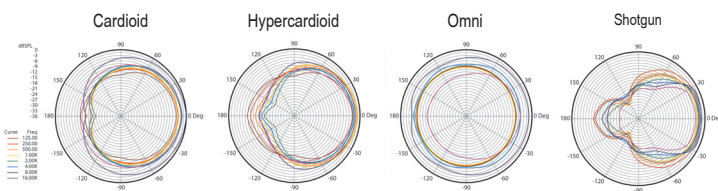
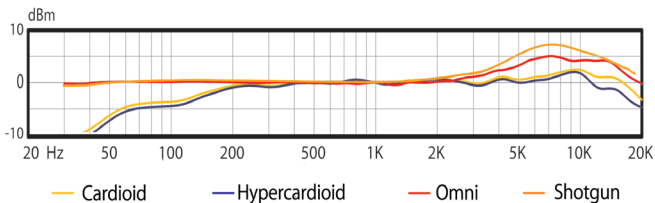
MGN-18 on ATS-10

# M1250B

**SPECIFICATIONS:**

Transducer Type	Condenser
Frequency Response	50 Hz - 19 kHz
Polar Pattern	Cardioid
	Hypercardioid
	Omnidirectional
	Supercardioid
Output Impedance	150 ohms
Sensitivity	10 mV / Pa (C) @ 1k
	10 mV / Pa (HC) @ 1k
	11 mV / Pa (O) @ 1k
Signal/Noise Ratio (A-weighted)	73 dB
Equivalent Noise Level (A-weighted)	21 dB
Maximum SPL @ .5% THD	≥140 dB
Dynamic Range	119 dB
Power Requirements	18 – 52 V
Connector	3 pin mini-XLRm
Polarity	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3
Housing / Finish	Machined brass / Powder coat
Weight	0.55 oz / 15.6 grams
Length	2.1 inches / 54 mm

**FREQUENCY / POLARS:**



\*\*\*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 M1250B 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.

**ARCHITECTS AND ENGINEERS SPECIFICATIONS:**

The microphone shall be of the condenser type with a modular threaded capsule available in cardioid, hypercardioid, omni-directional and supercardioid polar patterns. The microphone shall be protected from RF interference. The microphone shall have a fully integrated preamp circuitry thereby eliminating the need for a remote preamplifier module. The microphone shall operate on 18 - 52 Volts DC and the nominal output impedance shall be equal to 150 ohms at 1 kHz. The microphone shall have a sensitivity of 10 mV / Pa at 1 kHz with the cardioid capsule. The microphone shall have a maximum SPL level of ≥140 dB with THD of 0.5% and the microphone shall be machined out of brass and the dimensions shall be 12 mm in diameter by 54 mm in length. The microphone shall be the Audix M1250B.

**OPERATION:**

The M1250B is a low impedance microphone and should be plugged into a "mic level" input on your console, mixer or recording device. The M1250B 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 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 M1250B, despite its size, has all the attributes of a world class recording microphone. Low noise integrated electronics allows the microphone to function in the close field as well as in distance miking. It can be used on a wide variety of acoustics instruments as well as on voice and vocal ensembles.

**Polar patterns:** The M1250B is offered in 4 different polar patterns to help you achieve optimum results. **Cardioid (M1250B):** In general, the cardioid pattern is the most widely used as it offers a good balance between the sound of the instrument or voice within the context of the room or venue. The cardioid pattern is also helpful with resistance to feedback. For acoustic instruments, in general, the working range will depend on the sound pressure levels produced by the instrument. Because of its small size, the M1250B can also be used in hard to reach areas, such as beneath a cymbal. For orchestral instruments, the M1250B may be positioned anywhere from 3 - 12 inches depending on instrument and room acoustics. For speech or single voice the typical working distance is 8 - 10 inches. For area miking or group vocals the working distance can be between 2 - 3 feet from the sound source (see ADX40 and MB1250B for choir miking).

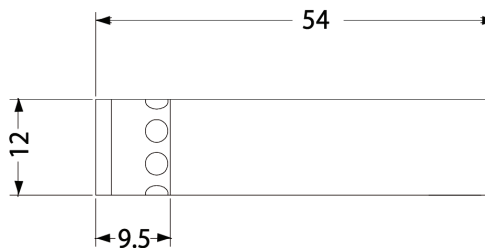
**Hypercardioid (M1250B-HC):** In situations where the volume is loud on stage or there are many open microphones, this pattern is helpful in further isolating the instrument or vocal from the rest of the instruments on stage. The microphone can be worked at 1/2 the distance of cardioid if necessary.

**Supercardioid (M1250B-S):** This polar pattern, also known as a shotgun pick up pattern, has a longer reach and more narrow pattern than the other cardioid patterns. This pattern is a preference at time for podium applications. It is helpful in pin-pointing hard to reach areas, especially for recording outdoors, and with video.

**Omnidirectional (M1250B-O):** This pattern picks up from all directions, offering very little in the way of isolation or feedback control. However, the omni pattern offers the most accurate and natural sound reproduction of all the patterns. It is ideal for recording, live broadcasts or video where sound reinforcement speakers are not an issue.

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

**DIMENSIONS (mm):**



**AUDIX WARRANTY REGISTRATION FORM**

Name: \_\_\_\_\_ Model: \_\_\_\_\_  
 Company: \_\_\_\_\_ Serial Number: \_\_\_\_\_  
 Address: \_\_\_\_\_ Store: \_\_\_\_\_  
 City: \_\_\_\_\_ Store Location: \_\_\_\_\_  
 Prov./State: \_\_\_\_\_ Zip: \_\_\_\_\_ Purchase Date: \_\_\_\_\_  
 Phone: ( ) \_\_\_\_\_ Signature: \_\_\_\_\_  
 Email: \_\_\_\_\_ Date: \_\_\_\_\_

Please register your product online at [www.audixusa.com](http://www.audixusa.com) or mail this form to:  
 Audix Microphones P.O. Box 4010 Wilsonville, OR 97070

Please Check all that apply:

Male  Female

Age:  18 or Under  19-25  26-35  36-45  46-55  55 +

Occupation:  Musician  Producer  Sound Eng.  Radio/TV  Production  Other \_\_\_\_\_

Primary Instruments:  Vocal  Guitar / Bass  Drums  Keyboard  Brass  Woodwinds  Strings  Other \_\_\_\_\_

Product to be used for:  Pro live sound  Pro recording  Home recording  Rehearsal  Installation  School  House of Worship  Other \_\_\_\_\_

How did you hear about Audix?  
 Magazine Ad  Online Ad  On-line Store  Friend  Salesman  Other \_\_\_\_\_

Do you own other Audix Products?  Yes  No  
 Model(s) \_\_\_\_\_  
 Have you visited the Audix website?  Yes  No



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