

# M1255B MINIATURE CONDENSER MICROPHONE

## OVERVIEW:

The M1255B, a miniaturized condenser microphone with a fully integrated preamp and detachable cable, is designed with a very high sensitivity for distance miking. Applications include ceiling mount or table mount for conferencing, overhead choir miking, location recording, audience or room miking.

The M1255B has complete immunity from RF interference caused by cell phones and GSM devices. The M1255B, 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 M1255B is available with a wide array of clips and accessories allowing the microphone to be used for musical instruments, overhead stage miking, podiums, conferences and presentations.

## SUPPLIED ACCESSORIES:

25' cable with mini-XLRf - XLRm connectors (CBLM25)  
Mic stand adapter (MCMICRO)  
Hanging clip (MCHANGER)  
External foam windscreen (WS1218)

## OPTIONAL ACCESSORIES:

MICROBOOM - 50-inch carbon fiber boom arm with clutch assembly  
SMTMICRO - Stand adapter with rubber insulated shockmount  
DCLAMPMICRO - Lug mount adapted for hand percussion instruments with shockmount ring  
DVICEMICRO - Drum rim mount attachment with shockmount ring  
MC20i - Clamp on clip for Saxophone with shockmount ring  
MGN6 - 6-inch gooseneck with base terminating in standard XLRm  
MGN12 - Same as MGN6 in 12-inch length  
MGN18 - Same as MGN6 in 18-inch length

## MODEL VARIATIONS:

M1255BW - Same as above in white  
M1255BHC - Same as above with hypercardioid capsule  
M1255BWHC - Same as above with hypercardioid capsule in white  
M1255BO - Same as above with omni-directional capsule  
M1255BWO - Same as above with omni-directional capsule in white  
M1255BS - 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 sensitivity  
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



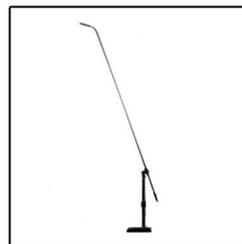
SMTMICRO



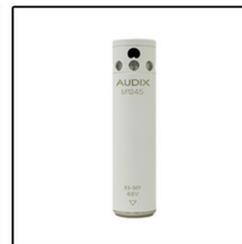
MCHANGER



MGN18 (MICROPOD)



MICROBOOM

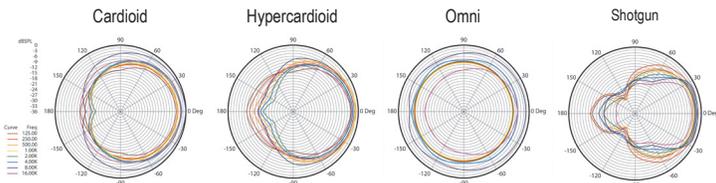
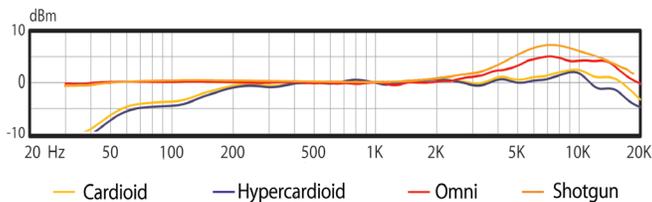


M1255BW

**SPECIFICATIONS:**

<b>Transducer Type</b>	<b>Condenser</b>
<b>Frequency Response</b>	<b>50 Hz - 19 kHz</b>
<b>Polar Pattern</b>	<b>Cardioid / Hypercardioid</b>
	<b>Omni / Supercardioid</b>
<b>Output Impedance</b>	<b>150 ohms</b>
<b>Sensitivity</b>	<b>38 mV / Pa (C) @ 1k</b>
	<b>32 mV / Pa (HC) @ 1k</b>
	<b>40 mV / Pa (O) @ 1k</b>
	<b>60 mV / Pa (S) @ 1k</b>
<b>Signal/Noise Ratio (A-weighted)</b>	<b>73 dB</b>
<b>Equivalent Noise Level (A-weighted)</b>	<b>21 dB</b>
<b>Maximum SPL @ .5% THD</b>	<b>≥130 dB</b>
<b>Dynamic Range</b>	<b>109 dB</b>
<b>Power Requirements</b>	<b>18 – 52 V</b>
<b>Connector</b>	<b>3 pin mini-XLRm</b>
<b>Polarity</b>	<b>Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3</b>
<b>Housing / Finish</b>	<b>Machined brass / Powder coat</b>
<b>Weight</b>	<b>20 g / 0.7 ounces</b>
<b>Length</b>	<b>54 mm / 2.1 inches</b>

**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 M1255B 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 at of 32 mV / Pa at 1 kHz with a cardioid capsule. The microphone shall have a maximum SPL level of ≥130 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 M1255B.

**OPERATION:**

The M1255B is a low impedance microphone and should be plugged into a "mic level" input on your console, mixer, or recording device. The M1255B requires phantom power and will NOT operate without phantom power voltage (18-52 Volts) 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).

Aviod 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 M1255B is designed with extremely high sensitivity. This, in conjunction with very low noise electronics, allows it to be used as a distance microphone. The M1255B is particularly effective in situations where achieving the proper gain is a challenge, where either the mic mixer is limited in gain or the sound is quiet or at a distance. The M1255B can be used for teleconferencing, either overhead or on a table depending on the requirements of the installation. Other applications include podium, vocal ensembles, choir, and acoustic instruments.

**Polar patterns:** The M1255B is offered in 4 different polar patterns to help you achieve optimum results.

**Cardioid (M1255B):** 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 M1255B could also be used in hard to reach areas, such as beneath cymbals. For orchestral instruments, the M1255B 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 - 6 feet from the sound source (see ADX40 and MB1250B for choir miking).

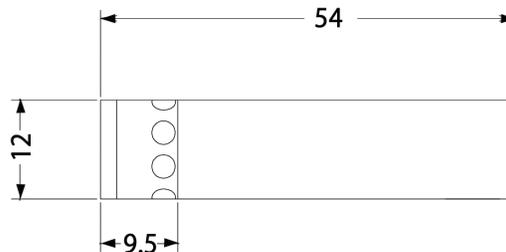
**Hypercardioid (M1255BHC):** In situations where the volume is loud on stage or there are many open microphones, this pattern is helpful in further isolating the instrument or vocal from the rest of the instruments on stage. The microphone can be worked at 1/2 the distance of cardioid if necessary.

**Supercardioid (M1255BS):** 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.

**Omni-Directional (M1255BO):** 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):**



[www.audixusa.com](http://www.audixusa.com)  
503-682-6933 Fax: 503-682-7114

Audix Corporation 9400 SW Barber St. Wilsonville, OR 97070



ver. 1.2 - 5/12

**AUDIX WARRANTY REGISTRATION FORM**

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

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

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