

# M1255B Miniature Condenser Microphone

## OVERVIEW

The M1255B is a miniaturized condenser microphone with a fully integrated preamp, detachable cable and is designed with very high sensitivity for distance miking.

Applications include ceiling mount or table mount for conferencing, hanging 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 is equipped with a cardioid capsule and is also available with hypercardioid, omni or shotgun capsules. The microphone has 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 for musical instruments, overhead stage miking, podiums, conferences and presentations.

## MODEL VARIATIONS

The M1255B mics are also available with white finish (M1255BW).

**M1255BHC** - Hypercardioid mic in black, also available in white (M1255BWHC).

**M1255BO** - Omni-directional mic in black, also available in white (M1255BWO).

**M1255BS** - Supercardioid mic in black, also available in white (M1255BWS).

## SUPPLIED ACCESSORIES

**CBL25** - 25' cable with mini-XLRf - XLRm connectors

**MCMICRO** - Mic stand adapter

**MCHANGER** - Hanging clip

**WS1218** - External foam windscreen

## OPTIONAL ACCESSORIES

**MICROBOOM** - 24", 50" or 84" carbon fiber boom arm with clutch assembly

**SMTMICRO** - Stand adapter with rubber insulated shockmount

**DCLAMPMICRO** - Lug mount adapter for hand percussion instruments with shockmount ring

**DVICEMICRO** - Drum rim mount attachment with shockmount ring

**MC20i** - Clamp on clip for Sax, Trumpet and other brass instruments

**MGN Series** - 6", 12" or 18" gooseneck with base terminating in standard XLRm



## FEATURES

- Small, lightweight, low profile
- Miniaturized preamp circuitry
- No external power adapter needed
- 12 mm gold vapor diaphragm
- Immune to RF interference
- Extremely low noise, high SPL handling
- Designed, assembled, manufactured & tested in the USA
- 3 year warranty

## APPLICATIONS

- Speech, Podium, Presentation
- Overhead mic for choir, group vocals
- Acoustic instruments
- Ambient room miking
- Vocal ensembles
- Cymbals, Percussion



SMTMICRO



MCHANGER



MG12 / 15 / 18



MICROBOOM



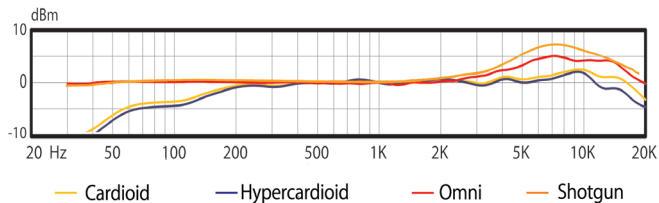
M1255BW

# M1255B

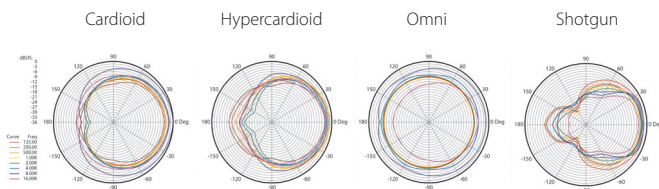
## SPECIFICATIONS

Transducer	Condenser
Frequency Response	50 Hz - 19 kHz
Polar Pattern	Cardioid, Hypercardioid, Omni, Supercardioid
Output Impedance	150 ohms
Sensitivity	38 mV (C), 32 mV (HC) 40 mV (O), 60 mV (S) / Pa @ 1k
Signal/Noise Ratio	73 dB
Equivalent Noise Level	21 dB (A-weighted)
Maximum SPL	≥130 dB
Dynamic Range	109 dB
Power Requirements	18 - 52 V
Connector	3 pin mini-XLRm
Materials / Finish	Machined brass / Black or White Finish
Weight	16 g / 0.56 oz
Length	54 mm / 2.1 in

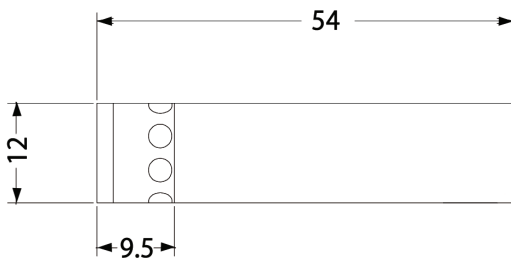
## FREQUENCY RESPONSE



## POLAR PATTERNS



## DIMENSIONS (mm)



**PRODUCT REGISTRATION:** Please register your product online at [www.audixusa.com/docs\\_12/about/product\\_registration.shtml](http://www.audixusa.com/docs_12/about/product_registration.shtml).

**SERVICE AND WARRANTY:** This microphone is under warranty for a period of 5 years to be free of defects in material and workmanship. In the event of a product failure due to materials or workmanship, Audix will repair or replace said product at no charge with proof of purchase. Audix does not pay or reimburse shipping costs for warranty repairs or returns. The warranty excludes any causes other than manufacturing defects, such as normal wear, abuse, environmental damage, shipping damage or failure to use or maintain the product per the supplied instructions. No Implied Warranties: All implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose are hereby excluded. The liability of Audix, if any, for damages relating to allegedly defective products shall be limited to the actual price paid by Dealer for such products and shall in no event include incidental or consequential damages of any kind. Should your microphone fail in any way, please contact the Audix Service department at 503.682.6933. A Return Authorization is required before returning any product. OTHER THAN THIS WARRANTY, AUDIX MAKES NO WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS, THE USE OF THE PRODUCTS, THE PERFORMANCE OF THE PRODUCTS. AUDIX SHALL NOT BE LIABLE FOR SPECIAL INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES ARISING FROM OR BASED ON THE SALE, USE, STORAGE OR DISPOSAL OF THE PRODUCTS, AUDIX'S SERVICE WORK, BREACH OF WARRANTY, BREACH OF CONTRACT. NEGLIGENCE, OR ANY OTHER THEORY OF LIABILITY, EVEN IF AUDIX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## ARCHITECT AND ENGINEER SPECIFICATIONS

The microphone shall be of the condenser type with a modular threaded capsule available in cardioid, hypercardioid, omnidirectional 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 38 mV (C), 32 mV (HC), 40 mV (O), 60 mV (S) / Pa at 1 kHz. 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 AND MAINTENANCE

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, use 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, studio monitors or headphones.

## 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 either overhead or on a table. The M1255B is particularly effective in situations where achieving the proper gain is a challenge, either because the mic mixer has limited gain or the strength of the sound source.

**Cardioid:** With its small size, the M1255B can 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.

**Hypercardioid:** 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 ½ the distance of cardioid if necessary.

**Supercardioid:** This pattern is a preference for podium applications. It is helpful in pin-pointing hard to reach areas, especially for recording outdoors and with video.

**Omnidirectional:** This 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. Not recommended for conferencing applications.

Further miking techniques may be found at [www.audixusa.com](http://www.audixusa.com).