

# M1280B Dynamic Instrument Microphone

## OVERVIEW

The M1280B, 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 M1280B is equipped with a cardioid capsule and is also available with hypercardioid, omni or shotgun capsules. The M1280B has a very wide frequency response and may be used in a wide variety of live, studio and broadcast applications.

The M1280B 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.

## MODEL VARIATIONS

**M1280BHC** - Hypercardioid mic

**M1280BO** - Omni-directional mic

**M1280BS** - Supercardioid (shotgun) mic

## SUPPLIED ACCESSORIES

**CBLM25** - 25' cable with mini-XLRf - XLRm connectors

**MCHANGER** - Hanging clip

**MCMICRO** - Mic stand adapter

**WS1218** - External foam windscreens

## OPTIONAL ACCESSORIES

**DCLAMPMICRO** - Lug mount with shock mount ring, adapted for hand percussion instruments

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

**DFLEXMICRO** - Wide jaw butterfly clip with shockmount ring

**MCSWIVEL** - Shock mount adaptor with ball and socket pivot for complete mic positioning

**MC20i** - Clamp on clip for saxophone with shockmount ring

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

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

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



## FEATURES

- Lightweight, small 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

- Overhead mic for choir, group vocal
- Acoustic instruments
- Ambient room miking
- Symphonic area miking
- Speech, Presentation, Podium
- Cymbals, Percussion
- Acoustic guitar



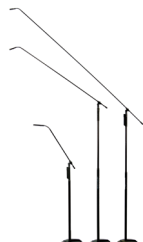
MCHANGER



MCMICRO



MCSWIVEL



MICROBOOM



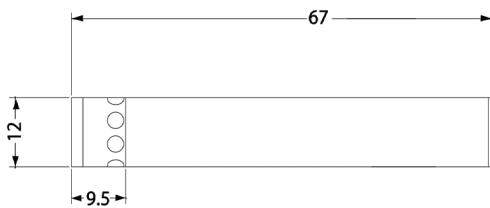
M1280B on DFLEXMICRO

# M1280B

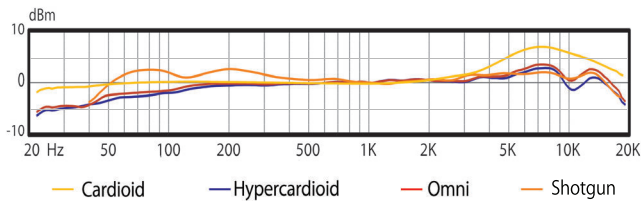
## SPECIFICATIONS

|                        |   |
|------------------------|---|
| Transducer Type        | Condenser   |
| Frequency Response     | 40 Hz - 20 kHz  |
| Polar Pattern          | Cardioid, Hypercardioid, Omni, Supercardioid  |
| Output Impedance       | 150 ohms  |
| Sensitivity            | 10 mV (C/HC), 12 mV (O),<br>18 mV (S) / Pa @ 1k   |
| Signal/Noise Ratio     | 73 dB   |
| Equivalent Noise Level | 21 dB (A-weighted)  |
| Maximum SPL            | ≥147 dB   |
| Dynamic Range          | 126 dB  |
| Power Requirements     | 18 - 52 V   |
| Connector              | 3-pin XLRm  |
| Polarity               | Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3 of output XLR connector |
| Materials / Finish     | Machined Brass / Black Finish   |
| Weight                 | 28 g / 1 oz   |
| Length                 | 67 mm / 2.6 in  |

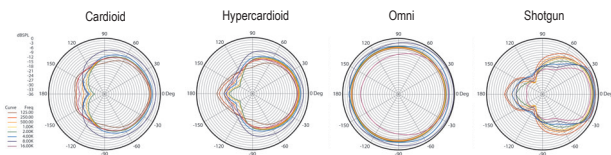
## DIMENSIONS (mm)



## FREQUENCY RESPONSE



## POLAR PATTERNS



**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 3 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, omni-directional and supercardioid polar patterns. The microphone shall be protected from RF interference. The microphone shall have a fully integrated preamp circuit 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 (C/HC), 12 mV (O), 18 mV (S) / pA at 1 kHz. The microphone shall have a maximum SPL level of 147 dB with THD of .5% and the microphone shall be machined out of brass and the dimensions shall be 12 mm in diameter by 67 mm in length. The microphone shall be the Audix M1280B.

## OPERATION AND MAINTENANCE

The M1280B is a low impedance microphone and should be plugged into a "mic level" input on your console, mixer or recording device. The M1280B 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, 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 M1280B, 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 the far field. It can be used on a wide variety of acoustics instruments as well as on voice and vocal ensembles.

**Cardioid:** The cardioid pattern is helpful with resistance to feedback. For percussion the M1280B should be used 1 - 2 feet above the cymbals, or because of its small size, could also be used in hard to reach areas such as beneath the cymbals. For orchestral instruments, the M1280B may be positioned anywhere from 3 - 12 inches depending on instrument and room acoustics. For speech or 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.

**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 best for podium applications. It is helpful in pin-pointing hard to reach areas, especially for recording outdoors, and with video.

**Omni-Directional:** 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)