

# M1280 MINIATURE CONDENSER MICROPHONE

## OVERVIEW:

The M1280, 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 M1280, 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 M1280 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)  
Carrying pouch (P1)

## 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  
DFLEX-MICRO - Wide jaw butterfly clip with shockmount ring  
DVICE-MICRO - Drum rim mount attachment 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

## MODEL VARIATIONS:

M1280-HC - Same as M1280 with hypercardioid capsule  
M1280-O - Same as above with omni-directional capsule  
M1280-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 shotgun capsule

## APPLICATIONS:

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



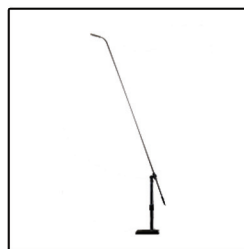
M1280 on DFLEX



MC-MICRO



M1280 on MC-HANGER



MICROBOOM

**SPECIFICATIONS:**

<b>Transducer Type</b>	<b>Condenser</b>
<b>Frequency Response</b>	<b>40 Hz - 20 kHz</b>
<b>Polar Pattern</b>	<b>Cardioid</b>
	<b>Hypercardioid</b>
	<b>Omni</b>
	<b>Supercardioid</b>
<b>Output Impedance</b>	<b>150 ohms</b>
<b>Sensitivity at 1k</b>	<b>10.4 mV / Pa (C)</b>
	<b>9.8 mV / Pa (HC)</b>
	<b>12 mV / Pa (O)</b>
	<b>18.3 mV / Pa (S)</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>≥150 dB</b>
<b>Dynamic Range</b>	<b>129 dB</b>
<b>Power Requirements</b>	<b>48 – 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>28 g / 1 ounce</b>
<b>Length</b>	<b>90 mm / 3.5 inches</b>

**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 48 - 52 Volts DC and the nominal output impedance shall be equal to 150 ohms at 1 kHz. The microphone shall have a sensitivity at 1 kHz of 10.4 mV / Pa in cardioid, 9.8 mV / Pa in hypercardioid, 12 mV / Pa in omni and 18.3 mV / Pa in supercardioid. The microphone shall have a maximum SPL level of 150 dB with THD of .5% and the microphone shall be machined out of brass and the dimensions shall be 12 mm in diameter by 90 mm in length. The microphone shall be the Audix M1280.

**OPERATION:**

The M1280 is a low impedance microphone and should be plugged into a "mic level" input on your console, mixer or recording device. The M1280 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 M1280, 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.

**Polar patterns:** The M1280 is offered in 4 different polar patterns to help you achieve optimum results. **Cardioid (M1280):** 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. For percussion, as an example, the M1280 could 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 M1280 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 MB1250 for choir miking).

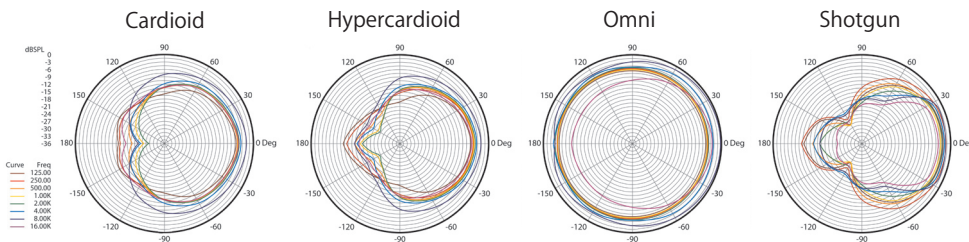
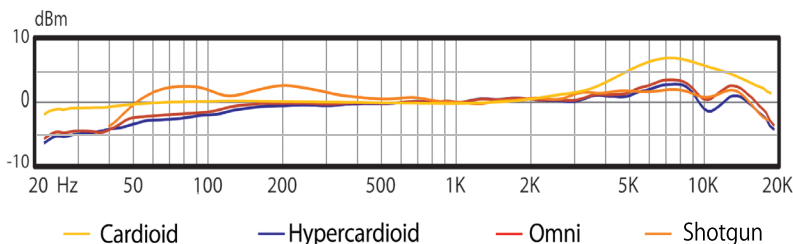
**Hypercardioid (M1280-HC):** In situations where the volume is loud on stage or there are many open microphones, this pattern is helpful in further isolating the instrument or vocal from the rest of the instruments on stage. The microphone can be worked at ½ the distance of cardioid if necessary.

**Supercardioid (M1280-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 best for podium applications. It is helpful in pin-pointing hard to reach areas, especially for recording outdoors, and with video.

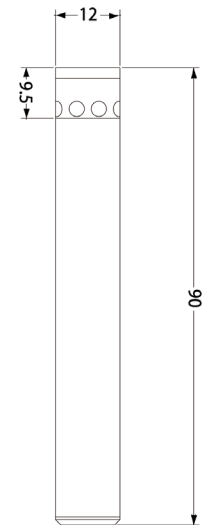
**Omni-Directional (M1280-O):** This pattern picks up from all directions, offering very little in the way of isolation or feedback control. However, the Omni pattern offers the most accurate and natural sound reproduction of all the patterns. It is ideal for recording, live broadcasts or video, where sound reinforcement speakers are not an issue.

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

**FREQUENCY / POLARS:**



**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 M1280 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.

To register your microphone, please visit [www.audixusa.com](http://www.audixusa.com)



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