

M1255 MINIATURE CONDENSER MICROPHONE

OVERVIEW:

The M1255, 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 M1255 has complete immunity from RF interference caused by cell phones and GSM devices. The M1255, 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 M1255 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 (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
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:

M1255W - Same as above in white
M1255HC - Same as above with hypercardioid capsule
M1255W-HC - Same as above with hypercardioid capsule in white
M1255-O - Same as above with omni-directional capsule
M1255W-O - Same as above with omni-directional capsule in white
M1255S - 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



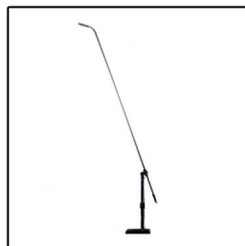
SMT-MICRO



MC-HANGER



MGN-18 (MICROPOD)



MICROBOOM



M1255W

SPECIFICATIONS:

Transducer Type	Condenser
Frequency Response	80 Hz - 20 kHz
Polar Pattern	Cardioid
	Hypercardioid
	Omni
	Supercardioid
Output Impedance	150 ohms
Sensitivity at 1k	34.5 mV / Pa
Signal/Noise Ratio (A-weighted)	73 dB
Equivalent Noise Level (A-weighted)	21 dB
Maximum SPL @ .5% THD	≥137.5 dB
Dynamic Range	117 dB
Power Requirements	48 – 52 V
Connector	3 pin mini-XLRm
Polarity	Positive pressure on diaphragm produces positive voltage on pin 3 relative to pin 3
Housing / Finish	Machined brass / Powder coat
Weight	17 g / 0.6 ounces
Length	50 mm / 1.97 inches

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 of 34.5 mV / Pa at 1 kHz with a cardioid capsule. The microphone shall have a maximum SPL level of ≥137.5 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 50 mm in length. The microphone shall be the Audix M1255.

OPERATION:

The M1255 is a low impedance microphone and should be plugged into a "mic level" input on your console, mixer, or recording device. The M1255 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 M1255 is designed with extremely high sensitivity. This, in conjunction with very low noise electronics, allows it to be used as a distance microphone. The M1255 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 M1255 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 M1255 is offered in 4 different polar patterns to help you achieve optimum results. **Cardioid (M1255):** 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 M1255 could also be used in hard to reach areas, such as beneath cymbals. For orchestral instruments, the M1255 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 MB1250 for choir miking).

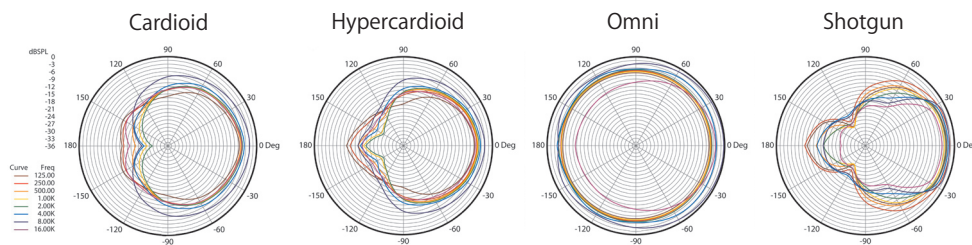
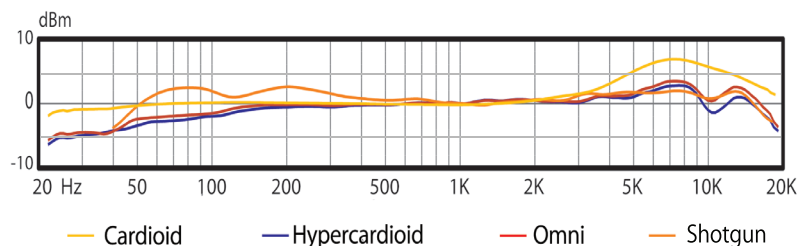
Hypercardioid (M1255-HC): In situations where the volume is loud on stage or there are many open microphones, this pattern is helpful in further isolating the instrument or vocal from the rest of the instruments on stage. The microphone can be worked at 1/2 the distance of cardioid if necessary.

Supercardioid (M1255-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.

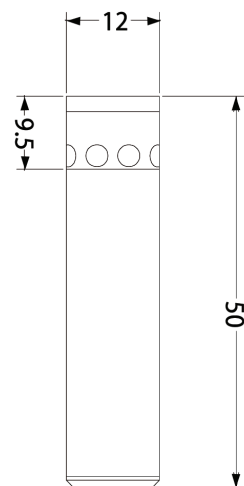
Omni-Directional (M1255-O): This pattern picks up from all directions, offering very little in the way of isolation or feedback control. However, the omni pattern offers the most accurate and natural sound reproduction of all the patterns. It is ideal for recording, live broadcasts or video where sound reinforcement speakers are not an issue.

*Further miking techniques may be found on our website at www.audixusa.com

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 M1255 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



www.audixusa.com Call: 503-682-6933 Fax: 503-682-7114
Audix Corporation 9400 SW Barber Street, Wilsonville, OR 97070