

# M55 HANGING CEILING MICROPHONE

## OVERVIEW:

The M55 is an innovative, hanging ceiling microphone system designed for applications where aesthetics, sound quality, and ease of installation are critical. The M55 is ideally suited for board, class, and conference rooms, and can also be used for ambient room miking and surveillance.

The M55 accommodates interchangeable capsules with omni, cardioid, hypercardioid, and supercardioid (shotgun) coverage patterns, and is optimized for speech. All electronics are fully integrated, high sensitivity, low noise, and the signal output is balanced, so cell phones and GSM devices do not cause RF interference.

Installing the M55 requires drilling just one 5/8-inch hole in the ceiling, with no additional tools needed. The M55's mounting hardware easily adjusts the hanging height up to four feet from the ceiling surface without removing ceiling tiles. An optional aiming clip easily makes any additional angular adjustments. The cable assembly, with its Phoenix connector, is neatly housed in an airtight, plenum-rated junction box. A wire safety cable provides additional seismic restraint.

## SUPPLIED ACCESSORIES:

CONN170F: Phoenix connector, 4-ft integrated mic cable  
CONN170M: Mating Phoenix connector for solder-less connection  
JBM55: Metal plenum-rated safety junction box with 5-ft seismic safety cable

## OPTIONAL ACCESSORIES:

MCHANGER: Clear plastic clip to adjust mic angle  
WS20W: White foam windscreen to reduce wind noise

## MODELS:

Each model features a different capsule, but has white finish and ships with the supplied accessories listed above.

M55W - cardioid

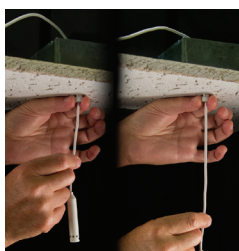
M55WHC - hypercardioid

M55WS – supercardioid (shotgun)

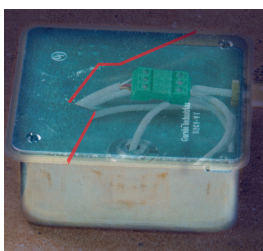
M55O - omnidirectional



MCHANGER



Adjustable Cable



JBM55



## FEATURES:

- High output allows distance miking
- Optimized for voice recognition
- No RF interference
- Fingertip height adjustment and rotation control
- Operates on 18 – 52 V phantom power
- Miniature, integrated preamp circuitry
- No external power adapter needed
- Extremely low noise, high sensitivity
- Junction box included

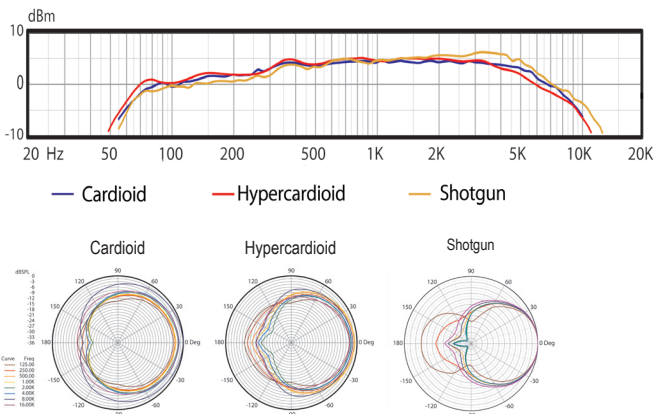
## APPLICATIONS:

- Video Conferencing
- Distance Learning
- Board Rooms
- Surveillance
- Hospital and medical procedures
- Ambient room miking

**SPECIFICATIONS:**

<b>Transducer Type</b>	Condenser
<b>Frequency Response</b>	60 Hz - 10 kHz
<b>Polar Pattern</b>	Cardioid, hypercardioid, supercardioid, omnidirectional
<b>Output Impedance</b>	150 ohms
<b>Sensitivity</b>	37 mV / Pa @ 1k
<b>Signal/Noise Ratio (A-weighted)</b>	72 dB
<b>Equivalent Noise Level (A-weighted)</b>	22 dB
<b>Maximum SPL @ .5% THD</b>	≥130 dB
<b>Dynamic Range</b>	108 dB
<b>Power Requirements</b>	18 - 52v phantom
<b>Connector</b>	Phoenix
<b>Polarity</b>	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3
<b>Housing / Finish</b>	Brass/white finish
<b>Weight</b>	Mic and cable: 1.6 oz (45 g) Junction box and safety cable: 17.6 oz (499 g)
<b>Length</b>	Mic: 2.48 inches (63 mm)

**FREQUENCY / POLARS:**



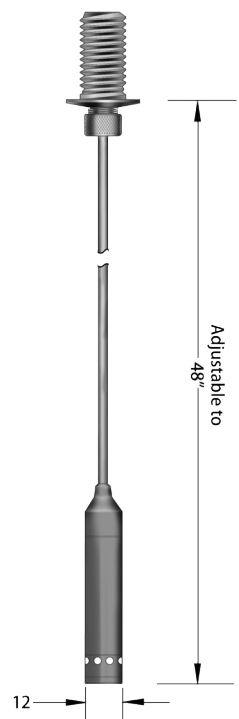
**ARCHITECTS AND ENGINEERS SPECIFICATION:**

The microphone shall be of the condenser type with a modular threaded capsule available in cardioid, hypercardioid, omni, 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 of 37 mV / Pa at 1 kHz. The microphone shall have a maximum SPL level of ≥ 130 dB with THD of 0.5%. The microphone shall be machined out of brass and the dimensions shall be 12 mm in diameter by 63 mm in length. The microphone shall be the Audix M55.

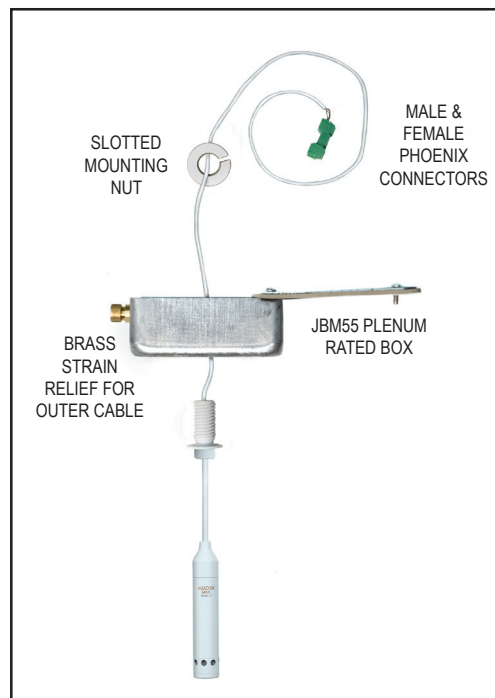
**OPERATION:**

The M55 is a low impedance microphone and should be plugged into a mic level input on your console, mixer, or recording device. The M55 requires phantom power (18-52 V), which is available on most professional mic preamps and mixing devices. If phantom power is not available on your equipment, procure a phantom power supply, such as the Audix APS2. Avoid plugging the microphone into or removing it from the audio system unless the channel is muted or the relevant faders are turned down. Failure to do so may result in a loud popping noise that could seriously damage the speakers.

**DIMENSIONS (MM):**



**EXPLODED VIEW:**



\*\*\*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 M55 is manufactured to exacting specs with road worthy construction. However, the capsule is highly sensitive and should be handled with care. Moisture of any kind can adversely affect the sound and performance of your microphone.



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ver. 1.1 - 2/12

**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
- On-line Store
- Salesman
- Online Ad
- Friend
- 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