

# WIRELESS MICROBOOM™

## WIRELESS CONDENSER MICROPHONE ON CARBON FIBER BOOM ARM

### OVERVIEW

The MBW Wireless MicroBoom series adds the convenience of wireless operation to the popular Audix MicroBoom range with performance that is indistinguishable from wired versions. Systems are designed to plug directly into Audix and other popular body pack transmitters (not included) that provide 4.5 to 5.5 volts DC power. A single 50" Wireless MicroBoom System easily reaches to the top of a three-tier riser and will cover a 20-person choir, while a single 84" system reaches to the top of a four-tier riser and will cover a 25-person choir. All cables needed to interface body pack transmitters and a newly designed MCWBOOM stand mount adapter are included. Systems are offered in 50 and 84 inch boom lengths with cardioid and hypercardioid capsule options. For customers seeking to convert existing wired MicroBoom systems to wireless, M1370B (cardioid) and M1370BHC (hypercardioid) may be ordered separately and include cables, MCWBOOM, MBWFLEX and WS1218 windscreen.

### OPERATION

The MBW range is a modular system designed to deploy the M1370B (cardioid) and M1370BHC (hypercardioid) microphone to an optimized height for sound capture or reinforcement of tiered choirs and musical ensembles with a boom-arm end designed to clip on to a wireless bodypack. The microphone attaches to the mini-XLR connector at the end of the gooseneck on the carbon fiber boom arm. To release and remove the microphone from the connector, simply push the button on the side of the mini-XLR and pull the microphone off.

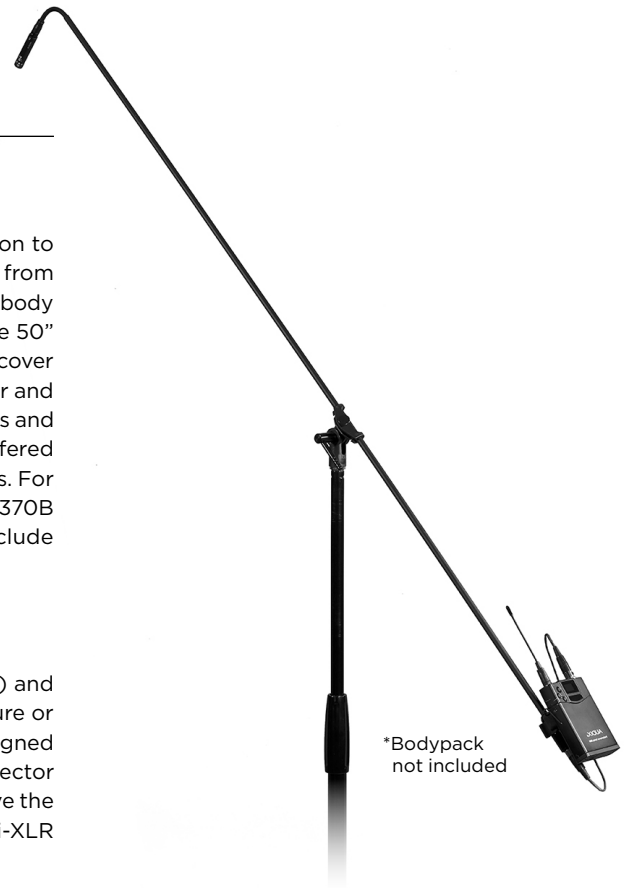
The boom arm is then securely attached to any mic stand via the MCWBOOM stand mount adapter (included). Using either the supplied 3 or 4 pin cable (whichever is applicable) the boom arm is then connected to a wireless body pack transmitter using the same push button connector described above.

The wireless body pack may be mounted directly to the boom arm at the lower connector housing using the included MBWCLIP or mounted to the mic stand using the included MBWFLEX.

### USER TIPS

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 hypercardioid pattern is useful in acoustically reverberant spaces or when there are many open microphones. This pattern is helpful in further isolating the instrument or vocal from the rest of the instruments on stage - for example a loud sound source such as drums next to a choir. For area miking or group vocals, the recommended working distance can be between 2 - 3 feet from the sound source. For instruments, optimal position is between 3 - 12 inches; this may vary with instrument and room acoustics.

The M1370B and M1370BHC are low impedance microphones designed solely for wireless operation. They require 4.5 V - 5.5 V DC bias power supplied by a wireless body pack transmitter and although standard 48 V DC phantom power voltage from an audio mixer or recording device will not damage the microphone, it will not pass signal.



### APPLICATIONS

- Choir
- Ensemble vocal
- Theatre
- Orchestral zone miking
- Location recording
- Presentation

### FEATURES

- Pristine, studio-grade audio quality
- Compatible with standard 5V body pack transmitters
- Fast setup, portable, and cable-free
- Designed, assembled & tested in the USA



© 2025 Audix Corporation. Audix is a registered trademark of the Audix corporation.  
Specifications subject to change without notice.  
For service and warranty information, visit [audixusa.com](http://audixusa.com)

# AUDIX®

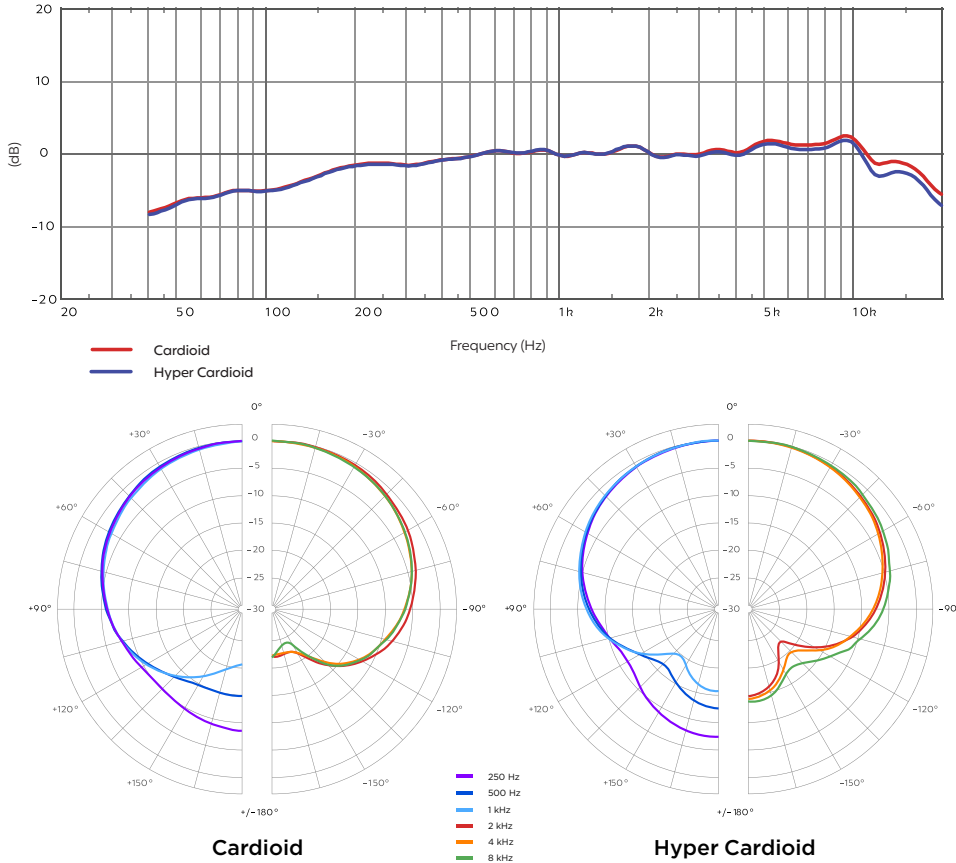
Wireless MicroBoom Spec Sheet 1.0

## MODEL VARIATIONS

The Wireless MicroBoom System comes with microphone, a carbon fiber boom, MCWBOOM stand mount assembly, 4 cables (TA3F to TA3F 1-foot and 6-foot; TA3F to TA4F 1-foot and 6-foot), MBWCLIP bodypack boom mount, MBWFLEX bodypack stand mount and windscreen.

- **MBW50B** - 50" carbon fiber boom with M1370B cardioid mic.
- **MBW50BHC** - 50" carbon fiber boom with M1370BHC hypercardioid mic.
- **MBW84B** - 84" carbon fiber boom with M1370B cardioid mic.
- **MBW84BHC** - 84" carbon fiber boom with M1370BHC hypercardioid mic.
- **M1370B** - Retrofit kit (less boom and MBWCLIP) - cardioid
- **M1370BHC** - Retrofit kit (less boom and MBWCLIP) - hypercardioid

## FREQUENCY AND POLAR RESPONSE



## ARCHITECT AND ENGINEER SPECIFICATIONS

The microphone shall be of the condenser type with a modular threaded capsule available in cardioid and hypercardioid polar patterns with boom length options of 50" and 84". 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 4.5 - 5.5 Volts DC typically provided by a wireless bodypack transmitter and the nominal output impedance shall be equal to 100 ohms at 1 kHz. The microphone shall have a sensitivity of 10 mV (C/HC) Pa at 1 kHz. The microphone shall have a maximum SPL level of 117 dB with THD of 1%, the microphone shall be machined out of brass and the dimensions shall be 12 mm in diameter by 53 mm in length. All necessary cabling for connection between the microphone and bodypack, mic stand mounting and bodypack mounting accessories shall be included. The microphone shall be the Audix: MBW50B (50" boom / cardioid) / MBW50BHC (50" boom / hypercardioid) / MBW84B (84" boom / cardioid) or MBW84BHC (84" boom / hypercardioid).

## SUPPLIED ACCESSORIES

- **MCWBOOM** - Mic stand adapter with thumbscrew and tightening lever.
- **WS1218** - Windsock
- **CBL3P1** - 1' 3pin to 3pin (female) mini-XLR cable
- **CBL3P6** - 6' 3pin to 3pin (female) mini-XLR cable
- **CBLADAPT4P1** - 1' 3pin to 4pin (female) mini-XLR cable
- **CBLADAPT4P6** - 6' 3pin to 4pin (female) mini-XLR cable
- **MBWCLIP** - Transmitter to Boom arm clip
- **MBWFLEX** - Stand Clamp

## SPECIFICATIONS

<b>Transducer Type</b>	Condenser
<b>Frequency Response</b>	50 Hz - 19 kHz
<b>Polar Pattern</b>	Cardioid, Hyper Cardioid,
<b>Output Impedance</b>	100 Ohms
<b>Sensitivity</b>	10 mV (C/HC) / Pa @ 1kHz
<b>Signal to Noise Ratio</b>	72 dB
<b>Equivalent Noise Level</b>	22 dB
<b>Maximum SPL</b>	117 dB SPL
<b>Dynamic Range</b>	95 dB
<b>Power Requirements</b>	4.5 - 5.5 V
<b>Current Consumption (@5V)</b>	2 mA

## DIMENSIONS

<b>Rod Material</b>	Carbon Fiber
<b>Gooseneck</b>	Flexible Steel
<b>Length MicroBoom 50</b>	1270 mm / 50 in
<b>Length MicroBoom 84</b>	2120 mm / 83.5 in
<b>Diameter</b>	7.5 mm / .2 in
<b>Connections</b>	mini-XLRm (bottom) mini-XLRf (top)
<b>Weight MicroBoom 50</b>	87.5 g / 3.0 oz
<b>Weight MicroBoom 84</b>	129.5 g / 4.5 oz
<b>Finish</b>	Black Finish



© 2025 Audix Corporation. Audix is a registered trademark of the Audix corporation. Specifications subject to change without notice. For service and warranty information, visit [audixusa.com](http://audixusa.com)

# AUDIX

Wireless MicroBoom Spec Sheet 1.0