

# BM-110/BM-111 Wired Boundary Microphone



## 01 Key Features:

- Excellent RF shielding effect, effectively avoiding RF interference.
- High gain-before-feedback
- Apply to fix or suspended ceiling installation Specially design for flush mounting into desktops or ceilings.
- Half-cardioid polar pattern, high-quality speech reproduction.
- Low-impedance balance audio output, the sound is smooth and clear.
- Equipped with auto-gain audio processing circuit, effectively avoiding the feedback.
- Half-cardioid polar pattern, increase gain-before-feedback.
- Decrease the environment noise and feedback, guarantee the vocal clarity.
- Heavy die-case, stable and durable alloy shell and microphone.
- The button is equipped with elastic bearing rings, minimize the coupling of surface vibration to the surface.

## 02 Application

- BM series condenser boundary microphone is designed for flush mounting into desktops or ceilings. Apply to tele/video conferencing, recording or amplification of round table discussions and the microphones needs to be unobtrusive as possible.
- The microphones have excellent RF shielding effect, which makes the microphones absolutely insensitive to interference from wireless communication devices such as mobile phones.
- BM-111 half-cardioid polar pattern, which increases the gain-before-feedback and decreases the amount of diffuse ambience.
- BM-110 provides a half-spherical pattern, making it ideal for large rooms. Due to its high sensitivity, even pick up the sound in far distance, output level won't appear large influence.
- The elastic bearing rings isolate the mechanical of the surface, thus the microphone can effectively isolate the mechanical noise.

## 03 Accessories:

- elastic bearing rings

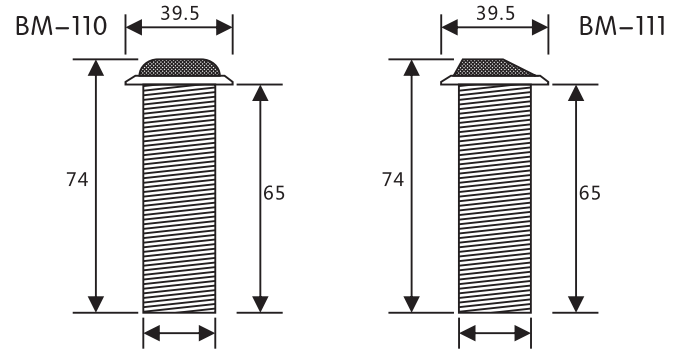
## 04 Installation:

- The installation hole(with elastic bearing ring) :  $\varnothing$  24 mm (15/16")
- The installation hole(without elastic bearing ring):  $\varnothing$  20 mm (13/16")
- The maximum thickness of the desktop/ceiling: 57 mm (2.25")

## 05 Specifications:

Model:	BM-110	BM-111
Capsule:	Back of polarization electrostatic condenser type	Back of polarization electrostatic condenser type
Polar Pattern:	Omni-directional polar pattern	Cardioid polar pattern
Frequency Response:	80-18,000 Hz	80-18,000 Hz
Sensitivity:	18 mV/Pa = -34.4 dBV	18 mV/Pa = -34.4 dBV
Output Impedance:	< 200 $\Omega$	< 200 $\Omega$
Max. Input Sound Level:	106 dB [SPL @ 1% THD].	106 dB [SPL @ 1% THD].
S/N:	68dB, 1 kHz @ 1Pa	68dB, 1 kHz @ 1Pa
Noise Voltage:	6.0 $\mu$ V [A]	6.0 $\mu$ V [A]
Phantom Power Requirements:	DC12-52V	DC12-52V
Current Consumption:	4mA (Typical)	4mA (Typical)
Output Connector:	Built-in 3-pin XLRM	Built-in 3-pin XLRM
Weight:	95g (include nut and elastic bearing ring)	95g (include nut and elastic bearing ring)
Dimension:	Length:74mm Width:20mm(steel pipe) 39.5 mm(capsule ring)	Length:75mm Width:20mm(steel pipe) 39.5 mm(capsule ring)

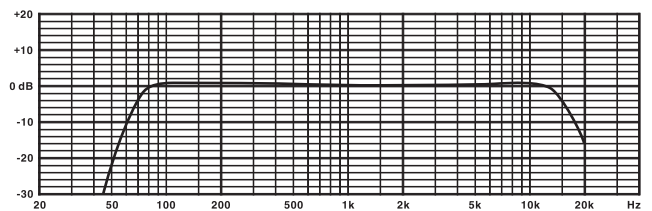
## 06 Dimension: (mm)



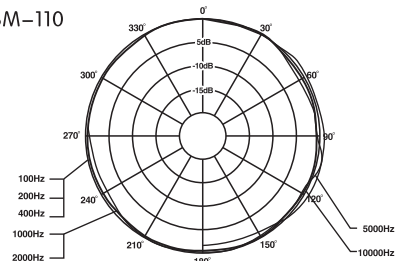
## 07 Frequency Respond & Polar Pattern

This frequency response curve and polar pattern correspond to a typical production sample for this microphone.  
(frequency response measurement error:  $\pm 2.5$ dB)

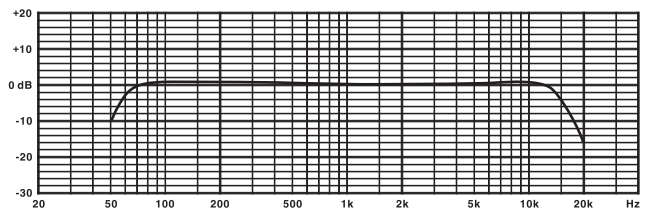
Frequency Respond BM-110 0dB=18 mV/Pa



Polar Pattern BM-110



Frequency Respond BM-111 0dB=18 mV/Pa



Polar Pattern BM-111

