

# Velocity Microphone, Type 44-BX

## Features

- Excellent reproduction of the entire audio frequency range.
- No loss in quality with off axis pickup.
- Artists may be placed on both sides of the microphone.
- Pickup of reflected sound reduced.
- Quality smooth as a result of the absence of pressure doubling, cavity and diaphragm resonance.
- Response may be adjusted to provide best possible frequency characteristics for either vocal or musical pickup.
- Unaffected by temperature humidity or air pressure.
- Shock mounted.
- Attractive appearance.

## Uses

The 44-BX is intended primarily for AM, FM and TV studio use where a microphone of the highest quality of reproduction is desired. It has the following general uses.

### A. BROADCAST STUDIO—

- (1) *General Program and Announce.*
- (2) *Plays* where the players may be grouped around the microphone.
- (3) *Conference Pickup* where the participants are seated on opposite sides of a table.
- (4) *Programs* where studio acoustics are more live than optimum.
- (5) *Programs* where the microphones may be suspended overhead and angled to reduce audience noise.
- (6) *Programs* where the directional pattern permits orientation to eliminate undesirable reflections from walls.

### B. BROADCAST REMOTE—

- (1) *General Program and Announce.*
- (2) *Plays* and other stage presentations where the microphone may be suspended overhead and angled to reduce audience noise.
- (3) *Programs* where the directional properties reduce the effect of an overly reverberant location.

The 44-BX microphone is not recommended for outdoor use because of the relative sensitivity of the microphone to wind.

## Description

The Type 44-BX Velocity Microphone is a Bi-directional microphone in which the moving element is a thin, rather narrow, corrugated metallic ribbon supported at the ends and placed between the pole pieces of a magnetic circuit. Because of its lightweight, the motion of the ribbon corresponds very closely to the velocity of the air particles and the voltage generated in it is, therefore, a reproduction of the sound waves which traverse it. An impedance matching transformer and compensating reactor are located in the base of the microphone and the upper perforated portion provides a windscreen of distinctive shape.

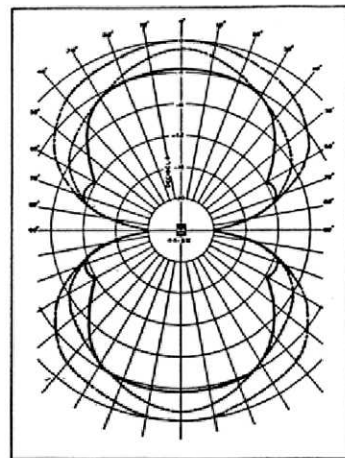
The 44-BX is attractively finished in satin chrome and a neutral umber gray to harmonize with modern studio interiors. The yoke mounting permits a wide range of tilting angles and the shock mounting reduces undesirable pickup from floor vibrations.

## Specifications

Directional Characteristics	Bi-directional
Output Impedances	30/150/250 ohms
Effective Output Level	-55 dbm*
Hum Pickup Level	-112 dbm**
Frequency Response	50-15,000 cycles
Finish	Umber gray and satin chrome
Mounting	1/2" pipe thread
Dimensions, overall	
Height (including cushion mounting)	12"
Width	4 3/4"
Depth	3 3/8"
Weight (unpacked, including mountings)	8 1/2 lbs.
Cable (MI-43A) 3 conductor shielded	(30 feet (no plug))
Stock Identification	MI-4027-G

\* Referred to 0.001 watt and a sound pressure of 10 dynes/cm<sup>2</sup> (94 db level).

\*\* Referred to 0.001 watt and a 60 cycle hum field of 0.001 gauss.



Directional characteristic of a typical 44-BX Velocity Microphone

— 10,000 cps  
 - - - 6,000 cps  
 ····· 1,000 cps

