

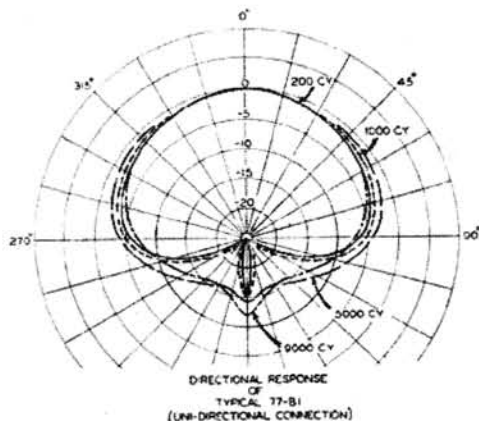
UNI-DIRECTIONAL MICROPHONE

Type 77-B1 . . . A Special Microphone for Critical Pickups

MI-4043

THE TYPE 77-B1 Uni-directional microphone can be used to excellent advantage in practically any type of studio installation. For example, in an auditorium studio or in one which provides space for an audience, this Uni-directional microphone can be used to pickup the entire action on the stage because of its cardioid pattern and will suppress, approximately 20 to 1, any undesirable noises originating in the audience. It can also be used to advantage in small studios where the reverberation time tends to be objectionable, precluding the use of a non-directional microphone. In a given studio, the type 77-B1 microphone can be used with approximately 1.73 times less reverberation pickup than a non-directional microphone. It is ideal for applications where it is necessary to place a microphone close to a wall or a window, since the pickup of reflected sound from the wall or glass is materially reduced.

Its operation is similar to that of the type 77-A Uni-directional microphone which it supersedes, namely; a single ribbon fixed at the center, one-half operating as a velocity microphone and the other half operating as a pressure type. The two outputs of the ribbon are connected in series and the resultant vector addition of the generated voltages produces a directional characteristic as shown below. This curve also shows the uniformity of the directional response with respect to frequency. The microphone's small size, light weight, rugged construction and good sensitivity recommend it as one which no station can afford to lack.



SPECIFICATIONS

- Output Impedances 50/250/500 Ohms
- *Output Level —66 VU
- Frequency Response See curve
- Directional Ratio 10 to 1 —20 db.
- Finish Polished Black and Chromium
- Mounting 1/2" pipe thread
- Dimensions overall length (including mounting) 10"; width 3 3/4"; depth 2 1/2"
- Weight Unpacked including mounting 2 lbs.

Supplied with 30' three conductor shielded cable, less plug.

* Sound pressure 10 dynes per cm. sq. output terminated into a matched load.

