

Dynamic Directional Microphone

D 20 B



Type D 20/60 B

Output impedance = 60 Ω

Type D 20/200 B

Output impedance = 200 Ω

This high quality directional microphone is recommended for use where studio quality is essential and it is therefore widely employed in sound and television broadcasting.

Its use is, however, not restricted to these two classic exponents of studio quality, and it is frequently employed in intercommunication systems where a high standard of performance is required.

By operating the bass cut switch, the low frequencies can be attenuated and this feature allows the microphone to be employed satisfactorily for close talking purposes such as in theatre installations and the recording of speech, etc.



AKUSTISCHE U. KINO-GERÄTE GMBH

WIEN XV, NOBILEGASSE 50 · AUSTRIA

TELEFON: (0222) 92 16 47

TELEX: 01 1839

TELEGRAMME: MICROPHONE WIEN

D 20/60 B – Dynamic Directional Microphone

This microphone incorporates one single system consisting of diaphragm and moving coil as opposed to the well-known combined cardioid type of microphone which incorporates a moving coil and ribbon system. As a result the polar characteristics, regarded in three dimensions, is a proper figure of revolution. Using a new principle based on the effect of velocity conversion of extremely thin tubes of air, the frequency range has been extended to 30 cycles without having any adverse effect on shock and wind sensitivity.

The D 20/60 B is equally suitable for both indoor and outdoor recordings, being weatherproof and to a large extent wind and shock proof. The swivel joint between microphone grille and bass cut switch enables the microphone to be adjusted in the direction of the sound source. The stand connector is fitted with a screw thread adapter giving a choice of three different thread sizes.



Increases in bass response, which occur mostly when microphones are used for close talking purposes, can be compensated by employing the bass cut switch to attenuate the low frequencies by 7 or 12 db (at 50 cycles). The position —12 db should, however, only be employed when the microphone is used at very short speaking distances.

Operation of bass cut switch: Pull out knob and turn it to the desired position (0, —7 or —12 db) with the red mark on the knob in line with the red mark on the swivel joint and then push knob in again.

Microphones which pick up the sound from one direction offer two distinct advantages compared with microphones which possess the normal omnidirectional pattern. These are **echo-free pick up** and **avoidance of acoustic feedback**. However, in order to make full use of these advantages, it is necessary to place the microphones as far away from sound reflecting surfaces as possible. For this purpose we recommend the use of our microphone floor stands and booms.

When the microphone is used in conjunction with public address installations, it is necessary to ensure that the loudspeakers are not facing the sensitive side of the microphone. On the D 20/60 B the most sensitive side (the front) has a light coloured grille whilst the rear has a dark coloured grille.

D 20/60 B Technical Data

Frequency range	30 — 15,000 cycles
Frequency response	See standard curve
Directional characteristic	cardioid
Discrimination	20 — 25 db
Output impedance	60 Ω
Sensitivity at 1,000 cycles	0.12 mV/ μ bar on open circuit —78 db re 1 V/dyn/cm ²
Plug	AKG 3 S 17 B or Tuchel T 3007 special
Plug connection	Pins 1 & 2 — moving coil Pin 3 — earth (connected to casing)
Stand connection	Adaptor with choice of $\frac{3}{8}$ " , $\frac{1}{2}$ " & $\frac{5}{8}$ " thread

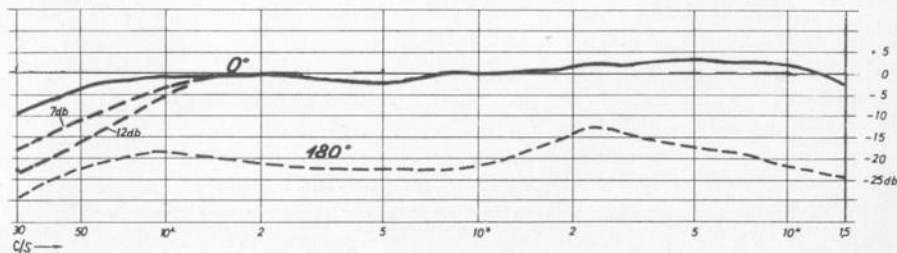
This microphone is shielded against the effects of stray magnetic fields, the shielding effect being approximately 20 db.

In the above technical data the output impedance refers to the frequencies between 300 and 1,000 cycles. We recommend that the input impedance of the amplifier should not be less than 3 times the output impedance of the microphone.

This microphone can also be supplied with an output impedance of 200 Ω and in such cases customers are asked to quote Type No. D 20/200 B instead of D 20/60 B when submitting orders.

All D 20 B microphones are supplied in an attractive wooden case.

Standard Curve

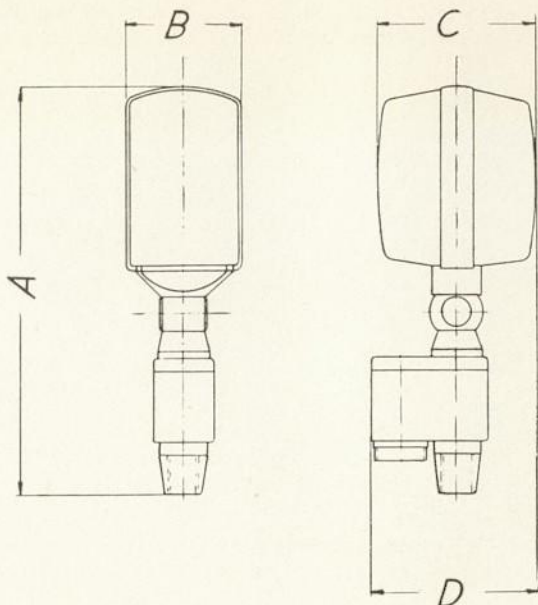


Dimensions

- A — 186 mm. ($7\frac{5}{16}$ ")
- B — 54 mm. ($2\frac{1}{8}$ ")
- C — 73 mm. ($2\frac{7}{8}$ ")
- D — 77 mm. (3")

Weight

Microphone with plug:
700 gr. (1 lb. 9 oz.)
including case:
900 gr. (2 lbs.)



A notable feature of this microphone is high reliability during operations. The moving coil system incorporates a special type plastic diaphragm protected by a non-corrosive, felt-sprayed gauze, this affording extra protection against wind and weather without having any detrimental effect on the high frequency response and guaranteeing successful operations, both indoor and outdoor.

In the interests of continual technical development we reserve the right to make technical and/ or price changes without giving prior notice.