Omnidirectional Moving Coil Microphone

DESCRIPTION
The M 101 is a high output moving coil mic with a durable and compact design. Its omnidirectional polar pattern captures the full natural ambience of the acoustic environment, while accurately reproducing the source. The well-balanced frequency range has a subtle upper frequency rise which enhances vocal clarity. Yet the M 101's smooth, natural response makes it less susceptible to feedback than many cardioid designs.

FEATURES
- High output moving-coil transducer
- Extended frequency response with gently rising high end
- True omnidirectional polar characteristic

APPLICATIONS
The M 101 can withstand SPLs of up to 120 dB, making it an excellent "talkback" microphone. In locations with naturally good acoustics, this mic can add ambient "atmosphere" to a recording. As a recording mic, the M 101 is recommended for close-miking of pianos and acoustic stringed instruments. It is also effective with snare drums and percussion. The M 101 is recommended by acoustical consultants as an ambience mic for commercial applications because of its consistently natural output in diffuse acoustical fields. The slim and inconspicuous case has a non-reflecting matte finish which is suitable for on-camera use in film or TV studios and on lecture podiums.
FREQUENCY RESPONSE CURVE (± 2.5 dB)

This polar pattern and frequency response curve correspond to typical machine run specifications from a standard M 101.

SPECIFICATIONS
Transducer type: Dynamic moving coil
Operating principle: Pressure gradient
Frequency response: 40 - 20,000 Hz
Polar pattern: Omnidirectional
Open circuit voltage at 1 kHz: 1.3 mV/Pa
Output level: -57 dBm (0 dBm Δ 1 mV/Pa)
EIA sensitivity rating: -149 dBm (0 dBm Δ 1 mV/Pa)
Nominal output impedance: 200 ohms
Load impedance: ≥ 200 ohms
Diaphragm: Hostaphan®
Case: Brass
Case finish: Matte black chromium plating
Male connector: Neutrik 3 pin
Net weight (less cable): 160 grams (5.6 oz.)

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS
The microphone shall be a moving coil dynamic type with a frequency range of 40 - 20,000 Hz. The unit shall have an omnidirectional polar characteristic. The microphone output shall be -57 dBm when 0 dBm Δ 1 mV/Pa respectively 1.3 mV/Pa. EIA sensitivity at 1,000 Hz shall be -149 dBm. Electrical impedance shall be 200 ohms. The case shall be made of brass, finished in matte black chromium plating with a chrome mesh top. The dimensions shall be: 4.7 in (118 mm) overall length and diameter of 0.9 in. (22.6 mm). The microphone shall be available with a Neutrik 3 pin male connector or equivalent. The Beyer Dynamic model M 101 is specified.

WIRING DIAGRAM
Positive pressure produces positive voltage on red cable lead (+)

FURNISHED ACCESSORIES
Carrying case: Black leatherette foam lined
Mic clip: MKV 8
Wind screen: WS 101

OPTIONAL ACCESSORIES
Cable: MVK C-C20 black 20 ft. two-conductor spiral shield synthetic rubber jacketed with black Neutrik 3 pin female XLR connector on mic end and black Neutrik 3 pin male XLR connector on equipment end. MVK C-C also available in 25 and 50 ft. lengths and with 1/4" two-conductor plug at equipment end
Mic clip: MKV 6 quick release
Pop screen: PS 101

DIMENSIONS
In millimeters (inches in brackets)
22.6 (0.9)
118 (4.6)