

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.

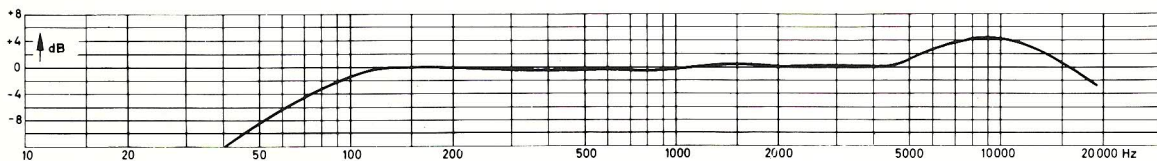
FEATURES

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

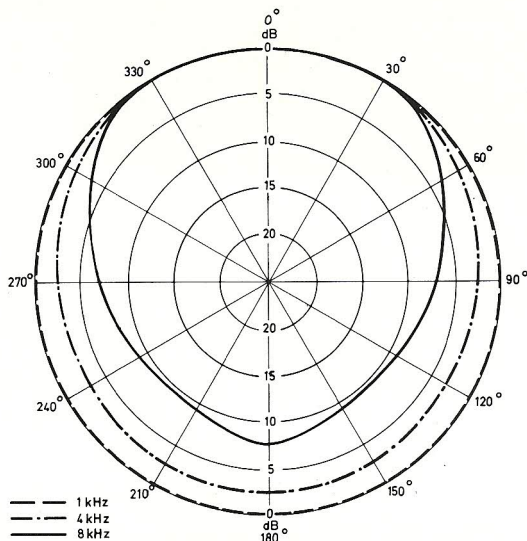
APPLICATIONS

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)



POLAR PATTERN

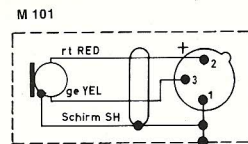


This polar pattern and frequency response curve correspond to typical machine run specifications from a standard M 101.

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 \triangle 1 mW/Pa)
EIA sensitivity rating:	-149 dBm (0 dBm \triangle 1 mW/2 x 10 ⁻⁵ Pa)
Nominal output impedance:	200 ohms
Load impedance:	\geq 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.)

WIRING DIAGRAM



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

FURNISHED ACCESSORIES

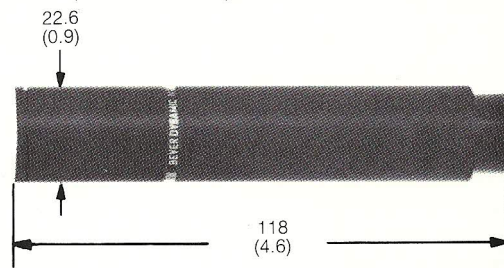
Carrying case:	Black leatherette foam lined
Mic clip:	MKV 8
Wind screen:	WS 101

OPTIONAL ACCESSORIES

Cable:	MVK C-C/20 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
Popscreen:	PS 101

DIMENSIONS

In millimeters (inches in brackets)



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 \triangle 1 mW/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.