

Hypercardioid Moving Coil Microphone

DESCRIPTION

The M 600's durable moving coil design was developed after extensive research in close cooperation with leading musicians and vocalists worldwide. The patented Hostaphan® diaphragm responds to transients with speed and accuracy, creating a highly detailed, transparent sound without excessive sibilance. The M 600's hypercardioid pickup pattern allows high gain levels before feedback with 24 dB attenuation at 120°. The powerful, richly detailed sound of the M 600 enhances vocal 'presence' with a precisely contoured high frequency rise. A unique three-position equalizer offers -8 dB/-12 dB/-16 dB attenuation at 50 Hz, enabling the user to filter out unwanted low frequency noise and stage rumble. The M 600 has an elastically suspended transducer system which eliminates handling noise, and an integral pop filter to reduce explosive breath sounds. The model M 600S includes a noise-free lockable On/Off switch.

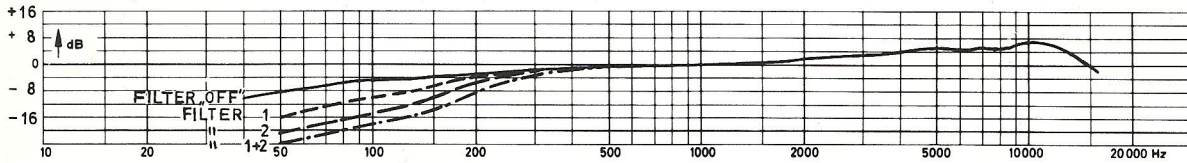
FEATURES

- Moving coil design with ultrafast Hostaphan® diaphragm
- True hypercardioid polar pattern
- Extended frequency range with "presence" boost
- Three-position EQ switch tailors low-frequency response to varying conditions
- Integral -20 dB humbucking coil
- Tapered aluminum barrel

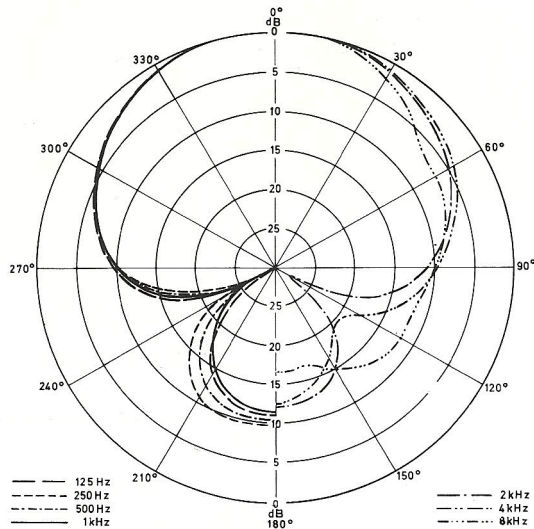
APPLICATIONS

The M 600 is designed for a wide variety of top-level vocal and instrumental sound reinforcement and recording situations. It is also excellent for public address and teleconferencing applications.

FREQUENCY RESPONSE CURVE (± 2.5 dB)



POLAR PATTERN

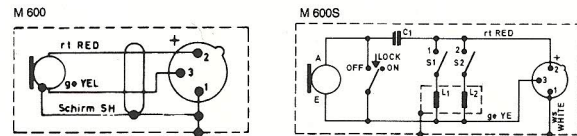


This polar pattern and frequency response curve correspond to typical machine run specifications from a standard M 600.

SPECIFICATIONS

Transducer type:	Dynamic moving coil
Operating principle:	Pressure gradient
Frequency response:	40 - 16,000 Hz
Polar pattern:	Hypercardioid
Side attenuation at 120° (1 kHz):	> 24 dB
Open circuit voltage at 1 kHz:	1.4 mV/Pa
Output level:	-57 dBm (0 dBm Δ 1 mW/Pa)
EIA Sensitivity rating:	-149 dBm (0 dBm Δ 1 mW/2x 10 ⁻⁵ Pa)
Magnetic Field Suppression:	> 20 dB @ 50 Hz
Nominal output impedance:	250 ohms
Load impedance:	\geq 1000 ohms
Bass attenuation:	Stepped -8/-12/-16 dB @ 50 Hz
Diaphragm:	Hostaphan®
Case:	Aluminum
Case finish:	Shaft - black matte anodized; Top - chrome mesh
Male connector:	Neutrik 3 pin
Net weight (less cable):	245 grams (8.6 oz.)

WIRING DIAGRAM



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

FURNISHED ACCESSORIES

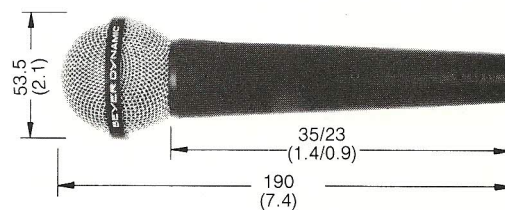
Carrying case:	Black zipper bag
Mic clip:	MKV 8

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 600 dark grey polyurethane foam
Windscreen:	WS 69, available in black, red, blue, yellow and green

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 - 16,000 Hz. The unit shall have a true hypercardioid polar characteristic. Attenuation at 120° shall exceed 24 dB. The microphone output shall be -57 dBm when 0 dBm Δ 1 mW/Pa respectively 1.4 mV/Pa. EIA sensitivity at 1,000 Hz shall be -149 dBm. The microphone shall have an integral humbucking coil to reduce magnetic hum susceptibility by better than 20 dB at 50 Hz. The microphone shall have three-position bass attenuator switch to effect -8 dB/-12 dB/-16 dB frequency contouring at 50 Hz. Electrical impedance shall be 250 ohms. The case shall be made of aluminum with a matte black anodized finish and a chrome mesh top. The dimensions shall be: 7.4 in. (190 mm) overall length, head diameter of 2.1 in. (53.5 mm) and shaft diameter of 0.9/1.4 in. (23/35 mm). The microphone shall be available with a Neutrik 3 pin male connector or equivalent. The beyerdynamic model M 600 is specified. The model M 600S shall have a lockable noise-free On/Off magnetic reed switch.

Subject to change without notice.

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