

CONDENSER MICROPHONES

For a clear, transparent
and bright response!

Audio, Video and
Communications
for Broadcasters



CM-179



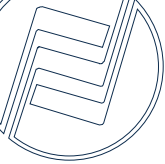
CM-65

CM-179

Large-diaphragm microphone with selectable directivity patterns. Specially designed for voice, it features an excellent dynamic range, generating a response that is not only clear, transparent and bright, but also compact and full of detail at low frequencies, with extremely low distortion independently on the received sound pressure level.

CM-65

Cardioid microphone for use in studio, on stage and open air. Specially designed for voice, the CM65 is also perfect for use with a wide range of instruments. It has excellent dynamic range, capable of taking over 140 dB SPL and generates a clear, transparent, and bright response with very low distortion regardless of the noise level collected.



Condenser Microphones. For a clear, transparent and bright response!

CM-179 LARGE-DIAPHRAGM MICROPHONE WITH SELECTABLE DIRECTIVITY PATTERNS FOR RECORDING, DUBBING OR RADIO STUDIOS

Its triple polar pattern (omni directional, cardioid or bi-directional) allows for proper adaptation to different studio types and number of people in it.

Cardioid patterns are preferred for a single person, for example in radio self-control applications. Bi-directional is used for voice recording or dubbing with two people located face to face, and omni-directional is usually selected for recording or voice dubbing with an indeterminate number of people around the microphone.

Its 100 Hz high-pass filter makes it suitable for scenarios, where vibrations can distort the acquisition of low frequencies.

Its flat and extended frequency response provides a perfect capture from any musical instrument.

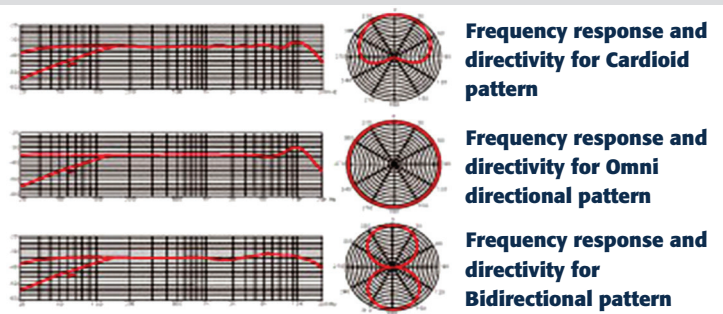
This microphone offers the best near field or remote acquisition, controlling close voice pops using its anti-pop filter, blowing from wind instruments, and external vibrations

and noises thanks to its suspension and high-pass filter. It is fed with 48V DC and connection is provided by means of a XLR connector.

EXAMPLES OF USE

Its excellent low-frequency response and neutrality make them especially suitable to capture several voices and/or studio instruments using the same microphone.

- Voice in Radio studios.
- Voice and singing in dubbing or recording studios.
- Wind and string instruments.
- Charles and cymbals.
- Drum boxes.



Frequency response and directivity for Cardioid pattern

Frequency response and directivity for Omni directional pattern

Frequency response and directivity for Bidirectional pattern

TECHNICAL SPECIFICATIONS

Operating principle:

Condenser transducer by pressure and pressure gradient, connected to internal, Phantom powered preamplifier providing impedance matching and filtering.

Polar pattern: cardioid / bidirectional / omni-directional (three selectable patterns).

Frequency range: 20–20.000 Hz.

Sensitivity: -32 dB / -34 dB / -36 dB (0dB = 1V/Pa at 1 KHz).

Electrical impedance:

200 ohm, ±30 % balanced.

Load impedance > 1000 ohm.

Case material: zinc and aluminum alloy, steel grid.

Finish: silver grey, matte.

Dimensions and weight:

-Diameter: 50 to 38 mm.

-Capsule diameter: 34 mm for dual 28mm membrane (1,1").

-Total length: 180 mm.

-Weight: 550 g net.

-Power supply: phantom power supply according to IEC 61938. Admits 48V.

-Maximum sound pressure level: 134 dB SPL for distortion < 1%.

-Maximum sound pressure level:

with -10dB attenuator: 144 dB SPL for distortion < 1%.

-High pass filter:

100 Hz. 6 dB / octave.

Accessories included:

-Elastic co-axial suspension, support thread pitch: 5/8".

-Anti-pop filter.

-Anti-shock transport case.

CARDIOID MICROPHONE FOR USE IN STUDIO, ON STAGE AND OPEN AIR

The CM65's acoustic and electronic enhancement filters enable a better picking up of sound, close or remote range, controlling the pops from close-to voice, the puffs of wind instruments and vibration and open air background noise.

This microphone is also provided with the necessary protection for intensive and not always very careful use: Supports high temperature and humidity, has a very rugged construction, with the transducer mounted elastically and surrounded by a grid of steel with foam inner lining providing an efficient pop protection.

The CM65 supports Phantom power voltages of 48/24/12 volts. The balanced connection is via an XLR connector.



Adaptable to the most diverse situations.

The CM65 has a switch for the adjustment of sensitivity and frequency response:

• Position "0 —": Gives the maximum sensitivity with flat response, for example for studio use at distances of 20-50 cm. from the mouth of each speaker.

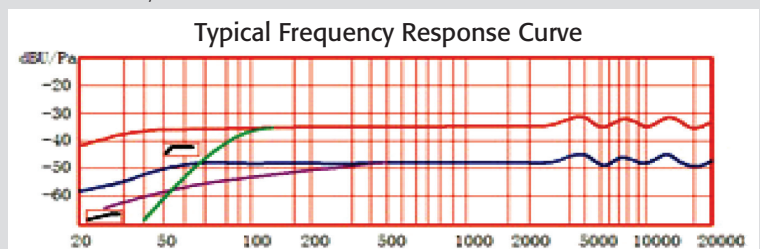
• Position "0 —": Gives the maximum sensitivity with low cut at 100 Hz. and attenuation of 12 dB/octave, for example for outdoor use or locations with noisy air conditioners, computers, etc.

• Position "-14 —": Decreases the sensitivity with flat response, for example for outdoor or stage use very close to the mouth of a speaker, singer or wind instrument.

• Position "-14 —": Decreases the sensitivity with a slightly attenuated response (4 dB/octave low and mid frequencies from 500 Hz. with a soft enhancement of the high frequencies and attenuation of the pop effects generated by vocal proximity. For use in for example, noisy outdoors or close to mouth applications on stage.

EXAMPLES OF USE

Speech in Radio or TV studios · Speech for sports commentators · Speech for ENG and outdoor reporting. Song on stage and in studio · Acoustic guitar · Wind instruments · Drum-sets and cymbals · Woodblocks and Drum boxes.



Typical Frequency Response Curve

TECHNICAL SPECIFICATIONS

Operating principle:

condenser transducer, connected to pre-amp with adaptive impedance and filters, Phantom powered.

Directionality: cardioid.

Frequency range: -30 to 20,000 Hz ±3 dB.

Sensitivity: -34 dB (0dB = 1V/Pa at 1 kHz).

Electrical impedance: 450 ohm ± 30% balanced.

Case material: zinc alloy and aluminium, steel grid.

Finish: matte black.

Dimensions and weight:

-Diameter:

45 mm head body of 21-24 mm.

-Total length: 190 mm.

-Weight: 250 g net.

Power: Phantom power according to IEC 61938. Supports standard voltages of 12, 24 or 48 or any intermediate Voltage.

Accessories included:

-Snap-on mount stand adapter

for 1/4" and 5/8" stands.

-Transport pouch with zipper.

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