

## CM-540                      Boundary Microphone

### General Description:

This microphone is a wide-range back electret condenser with a cardioid polar pattern. It is very useful in a variety of surface-mounted applications such as high quality sound reinforcement, professional recording, and many other demanding sound pickup situations. The microphone is designed to be powered by an external 9V to 52V DC phantom power supply and is enclosed in a heavy-duty die cast on rubber padding to minimize mechanical coupling of surface vibrations to the microphone.

In addition, the UC CM-540 can also be used in many creative applications, For example, wrapped in a blanket to deaden vibrations, it is a very effective kick drum mic when placed inside the kick drum.

Be aware of the proximity effect(an increase in bass response)when the mic placed close to the instrument. This may or may not be desirable. Experimenting with the position of the mic with respect to the audio source will ensure the optimum results you are seeking in any given application.Although all microphones are prone to feedback to some extent, those with a unidirectional polar pattern(such as the CM-540)are specially designed to accept only signals from audio sources in front of the mic element. Thus,the half cardioid pattern of the mic, rejecting the unwanted audio from the rear, even in noisy ambient conditions with high sound pressure levels from the P.A and monitor speaker. This means that feedback will be greatly minimized with the CM-540 in all live performance miking applications.

### Features:

\*Without LED and on/off switch

\*Uni-directional pickup pattern and full frequency response of 50Hz-20KHz produce top audio at any distance from the source with excellent feedback rejection.

\*Rugged die-cast alloy housing on ubber padding to minimize mechanical coupling of surface vibrations to the microphone.

\*9-50V phantom powered.

### Specifications:

Model No.:	CM-540
Element:	Back Electret Condenser
Polar Pattern:	Cardioid(Uni-directional)
Sensitivity(at 1KHz 74dB spl):	-35 ± 3dB
Frequency Response:	50Hz~18KHz
Output Impedance:	80 Ω ± 30%
Max input S.P.L.(1%T.H.D):	130dB
Connector:	Mini-XLR
Power Requirements:	9-52V DC
Accessories:	5m(x2 mini-XLR) cable, mini-XLR/XLR phantom power adapter