

## ECM-66B

Miniature cardioid directional  
lapel Electret condenser  
microphone



### Overview

The ECM-66B miniature, lapel microphone is suitable for voice and musical instrument pick-up in noisy environments. The cardioid polar response allows the microphone to be positioned for picking up the sound source while rejecting background noises. It is supplied with an integral power barrel and it is terminated with an XLR connector.

#### **Hands Free microphone**

As a lapel microphone, the ECM-66B is an alternative to the traditional hand held microphone and being 'hands free' it allows the presenter to concentrate on her/his performance.

#### **Simple to use in public address systems.**

As a cardioid polar response microphone, the ECM-66B can help to reduce the potential problem of microphone 'howl round'. The alternative omni-directional microphones are more prone to creating audio feedback loops.

#### **Versatile performance**

The ECM-66B has an extended frequency response and high SPL handling, making it highly versatile.

### Features

#### **Designed for a wide range of audio sources**

The ECM-66B's capsule features an extended frequency

response and it can handle high SPL signals.

### Compact size

The capsule has a diameter of only 10.6mm and is 24mm long, making it easy to conceal.

### Ready for wired applications

The ECM-66B is the wired microphone version with an XLR output and integral power supply barrel. It can either be powered by the external microphone amp or an internal battery (LR6/AA size).

## Specifications

### Audio Section

Capsule Type	Electret Condenser
Frequency Response	70 Hz to 14 kHz
Directivity	Uni-directional
Sensitivity <sup>*[1]</sup>	-50.0 dB $\pm$ 2 dB
Output Impedance <sup>*</sup> [2]	100 $\Omega$ $\pm$ 20%, Balanced
Dynamic Range	101 dB or more
Signal-to-Noise Ratio <sup>*[3]</sup>	65 dB or more
Inherent Noise <sup>*[4]</sup>	29 dB SPL or less
Induction Noise From External Magnetic	5 dB SPL or less

Field \*[5]

Wind Noise \*[6] 50 dB SPL or less (with windscreen)

Maximum Input  
Sound Pressure Level 130 dB SPL  
\*[7]

## General Section

Connector B type. Supplied with XLR-3-12C (male) connector in power supply unit (single AA size battery)

Mic Cable 9.8 feet  
3 m

Power Requirements DC 1.5 V (AA size battery) or +48 V phantom power

Battery Operating Time Approx. 400 h (LR6)

Power Consumption Internal battery: 3.0 mA or less  
External battery: 2 mA or less

Dimensions \*[8]  $\phi 7/16 \times 31/32$  inches (Mic head)  
 $\phi 20.0 \times 163$  mm (Power unit XLR type)  
 $\phi 13/16 \times 6 1/2$  inches (Power unit XLR type)

	φ10.6 X 24.2 mm (Mic head)
Mass	Approx. 5.9 oz (with power supply unit) Approx. 167 g (with power supply unit)
Supplied Accessories	Urethane type windscreen (1) Single/vertical type tie clip (1) Single/horizontal type tie clip (1) Operating instructions (1) Mic case (1)
Optional Accessories	Wind screen pack Horizontal single-clip pack

## Notes

Note	<p>*[1] 0 dB = 1 V/Pa, at 1 kHz</p> <p>*[2] Output impedance at 1 kHz</p> <p>*[3] A-weighted, 1 kHz, 1 Pa.</p> <p>*[4] 0dB SPL = 20? Pa.</p> <p>*[5] dB SPL/1E-7 T, 0 dB SPL = 20? Pa.</p> <p>*[6] Wind noise at 2m/s (0 dB SPL = 20?Pa.)</p> <p>*[7] 0 dB SPL = 20? Pa.</p> <p>*[8] The values for dimensions are approximate.</p>
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## Gallery

