

## ECM-77B

Omni-directional electret condenser microphone



### Overview

#### **Discreet wired microphone**

The ECM77B is a miniature lavalier (tie clip) microphone designed to be inconspicuous. This tiny microphone runs on either phantom power or AA battery operation and comes with an XLR connector. Useful for studio, ENG, and EFP applications.

#### **Hands free microphone**

Allows the presenter to concentrate on her/his performance.

### Features

#### **Hands free microphone**

As a lapel microphone, the ECM-77B is an alternative to the traditional hand held microphone and being hands free it allows the presenter to concentrate on her/his performance

#### **Two-way powering system**

AA-size battery or external power supply.

#### **High-performance frequency response**

40-20,000 Hz.

#### **Easy and familiar operation**

The popularity of the microphone in TV production means that most sound people will be familiar with using the ECM-77.

## Specifications

### Audio Section

|   |                                     |
|---|-------------------------------------|
| Capsule Type  | Electret Condenser                  |
| Frequency Response                                      | 40 Hz to 20 kHz                     |
| Directivity   | Omni-directional                    |
| Sensitivity *[1]  | -52.0 dB $\pm$ 2 dB                 |
| Output Impedance *<br>[2]                               | 150 $\Omega$ $\pm$ 20%, Balanced    |
| Dynamic Range   | 90 dB or more                       |
| Signal-to-Noise Ratio<br>*[3]                           | 64 dB or more                       |
| Inherent Noise *[4]                                     | 30 dB SPL or less                   |
| Induction Noise From<br>External Magnetic<br>Field *[5] | 5 dB SPL or less                    |
| Wind Noise *[6]   | 40 dB SPL or less (with windscreen) |
| Maximum Input<br>Sound Pressure Level<br>*[7]           | 120 dB SPL                          |

### General Section

B type. Supplied with XLR-3-12C

|                        |  |
|------------------------|--|
| Connector              | (male) connector in power supply unit (single AA size battery)   |
| Mic Cable              | 9.8 feet<br>3 m  |
| Power Requirements     | DC 1.5 V (AA size battery) or +48 V phantom power  |
| Battery Operating Time | Approx. 6000 h (LR6)   |
| Power Consumption      | Internal battery: 0.3 mA or less<br>External battery: 2 mA or less   |
| Dimensions *[8]        | o5.6 X 12.5 mm (Mic head)<br>o20 X 133 mm (Power unit XLR type)<br>o13/16 X 5 1/4 inches (Power unit XLR type)<br>o1/4 X 1/2 inches (Mic head)           |
| Mass                   | Approx. 4.3 oz (with power supply unit)<br>Approx. 121.5 g (with power supply unit)  |
| Supplied Accessories   | Single/vertical type tie clip (1)<br>Single/horizontal type tie clip (1)<br>Operating instructions (1)<br>Mic case (1)<br>Metak-mesh type windscreen (1) |

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|                      |   |
|----------------------|---|
|                      | Double/horizontal type tie clip (1)   |
| Optional Accessories | Wind screen pack<br>Vertical clip pack<br>Safety pin type clip pack<br>Horizontal double-clip pack<br>Horizontal single-clip pack<br>ECM-77 accessory kit<br>Colored wind screen kit<br>Black windscreen for ECM-77 |

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## Notes

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

