

# ECM-77BC

Discrete omni-directional lavalier Electret condenser microphone



## Overview

The ECM-77 is probably the most often seen lavalier microphone on TV and it is used widely in both studio production and on location. Its popularity is based on a combination of excellent sound quality, robust construction and an attractive cosmetic design. This microphone is the ECM-77BC supplied with a 4-pin locking plug for use with wireless transmitters which have HIROSE SMC9-4S connector.

### **Hands Free**

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

### **Professional Image**

The ECM-77 is probably the most seen microphone on TV and its compact design creates a professional image.

### **Easy and Familiar Operation**

The ECM-77 is an essential tool for achieving good quality voice recording. The microphone's capsule is designed for voice pick-up with an extended frequency response and impressive sensitivity. The popularity of the microphone in TV production means that most sound people will be familiar with using the ECM-77.

## Features

### **Designed for high quality voice pick-up**

The ECM-77's capsule features a voice emphasis curve, extended frequency response and sensitivity.

### **Minute size**

The capsule has a diameter of only 5.6mm and is 12.5mm long.

### **Ready for wireless systems**

The ECM-77BC is compatible with wireless transmitters which have HIROSE SMC9-4S connector, providing high quality wireless microphone systems for video production.

## Specifications

Audio Section	
Capsule Type	Electret Condenser
Frequency Response	40 Hz to 20 kHz
Directivity	Omni-directional

Sensitivity *[1]	-39.0 dB (11.2 mV)
Output Impedance *[2]	2.5kΩ±30%, Unbalanced
Dynamic Range	90d B or more
Signal-to-Noise Ratio *[3]	64 dB or more
Inherent Noise *[4]	30 dB SPL or less
Induction Noise From External Magnetic Field *[5]	5 dB SPL or less
Wind Noise *[6]	40 dB SPL or less (with windscreen)
Maximum Input Sound Pressure Level *[7]	120 dB SPL

### General Section

Connector	BC type. Supplied with Sony 4-pin (SMC9-4P) connector
Mic Cable	3.9 feet 1.2 m
Power Requirements	DC 1.1 V to 10.0V
Power Consumption	0.4 mA or less
Dimensions *[8]	φ5.6 X 12.5 mm (Mic head) φ1/4 X 1/2 inches (Mic head)
Mass	Approx. 25.5 g Approx. 0.9 oz
Supplied Accessories	Single/horizontal type tie clip (1) Metal-mesh type windscreen (1)
Optional Accessories	Wind screen pack Vertical clip pack Safety pin type clip pack Horizontal double-clip pack Horizontal single-clip pack ECM-77 accessory kit Colored wind screen kit Black windscreen for ECM-77

### Notes

Note	<p>*[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.)  *[8] The values for dimensions are approximate.</p>
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## Related products



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UWP-D body-pack transmitter



### **DWT-B01N**

DWX series digital wireless  
body-pack transmitter body-  
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