

# ECM-K57/Z157

## SERVICE MANUAL

US Model  
E Model  
UK Model  
AEP Model  
ECM-K57/Z157  
Canadian Model  
ECM-Z157



ECM-K57



ECM-Z157

### SPECIFICATIONS

#### (ECM-K57)

**General**  
Type: Electret condenser microphone  
Microphone output plug: L-shaped miniplug  
Dimensions: 36 x 47 x 145 mm (width x height x depth)  
(1 7/8 x 1 7/8 x 5 7/8 inches)  
Weight: Approx. 70g (2.47oz) (including battery)  
Supplied accessories: Sony battery BRUM-3(N5) (1)

**Performance**  
Frequency response: 150-12,000 Hz  
Output impedance: 400Ω ± 30%  
Output level (deviation): ±4 dBm

	Effective output level <sup>1)</sup>	Signal-to-noise ratio <sup>2)</sup>
Unidirectional	±46 dBm	More than 62 dB
Omnidirectional	±47 dBm	More than 58 dB

<sup>1)</sup> 0 dBm = 1 mW/10Pa, 1,000 Hz. <sup>2)</sup> 1,000 Hz-1 Pa

1 Pa = 10 x bar = 94 dB SPL

Power requirements

Battery life: Normal operating voltage: 1.5 V  
Approx. 1,500 hours of continuous use, using Sony  
BRUM-3(N5) battery

Maximum sound pressure input level<sup>3)</sup>: Unidirectional: more than 110 dB SPL  
<sup>3)</sup> This mean value is taken at 1 kHz converted to 100  
sound level input sound level. 0 dB SPL = 2 x 10<sup>-5</sup> Pa

Environmental temperature: 0°C to +50°C (+32°F to +120°F) for operation

#### (ECM-Z157)

**General**  
Type: Electret condenser microphone  
Microphone output plug: L-shaped miniplug  
Dimensions: 36 x 47 x 145 mm (width x height x depth)  
(1 7/8 x 1 7/8 x 5 7/8 inches)  
Weight: Approx. 70g (2.47oz) (including battery)  
Supplied accessories: Carrying case (1) (UK, AEP, E Model only)  
Sony battery BRUM-3(N5) (1)

**Performance**  
Frequency Response: Stereo angle: 500-10,000 Hz  
Unidirectional: 150-12,000 Hz  
Omnidirectional: 150-12,000 Hz  
Output impedance: 400Ω ± 30%  
Output level (deviation): ±4 dBm

	Effective output level <sup>1)</sup>	Signal-to-noise ratio <sup>2)</sup>
Stereo angle	±34 dBm	More than 60 dB
Unidirectional	±46 dBm	More than 62 dB
Omnidirectional	±47 dBm	More than 58 dB

<sup>1)</sup> 0 dBm = 1 mW/10Pa, 1,000 Hz. <sup>2)</sup> 1,000 Hz-1 Pa

1 Pa = 10 x bar = 94 dB SPL

Power requirements

Battery life: Normal operating voltage: 1.5 V  
Approx. 800 hours of continuous use, using Sony  
BRUM-3(N5) battery

Maximum sound pressure input level<sup>3)</sup>: Stereo angle: more than 100 dB SPL  
Unidirectional: more than 110 dB SPL  
<sup>3)</sup> This mean value is taken and converted to the  
maximum of 600 Hz-10 kHz. 0 dB SPL = 2 x 10<sup>-5</sup> Pa  
Environmental temperature: 0°C to +50°C (+32°F to +120°F) for operation

ELECTRET CONDENSER MICROPHONE  
**SONY**

# K57 Service Manual

**Yan Bai**



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