ECM-990

USA Model

ONE POINT STEREO ELECTRET CONDENSER MICROPHONE

SPECIFICATIONS

PERFORMANCES

Frequency response: 40–16,000 Hz
Directivity: Uni-directional per each capsule
Output impedance: 200 ohms ±20% at 1,000 Hz
Output level: (deviation ±3 dB)
Effective output level: -56.0 dBm
(0 dB = 1 mW/10 µbar)
Open circuit voltage: 0.14 mV/µbar
Recommended load impedance is more than 3k ohms.

Power requirements:
Normal operating voltage: 1.5 V DC
Minimum operating voltage: 1.1 V DC
Current drain: Less than 300 µA
Battery life: Approx. 4,000 hours with EVEREADY 1015, approx. 3,000 hours with EVEREADY E-91

Noise level:
Signal-to-noise ratio: More than 44 dB
(1,000 Hz, 1 µbar)
Inherent noise: Less than 30 dB SPL
(0 dB = 2 x 10^-5 µbar)
Wind noise*1: Less than 50 dB SPL
Induction noise from external magnetic field**:
Less than 5 dB SPL/m gauss

*1 Wind noise is the value measured by applying a wind velocity of 6.6 ft/s from all directions to the microphone. The mean value is taken and converted to the equivalent input sound level. 0 dB = 2 x 10^-5 µbar.

*2 The external magnetic field induction noise is measured with the microphone placed in the alternating magnetic field of 50 Hz, 1 m gauss. The maximum noise value is taken and then converted to the equivalent input sound level, 0 dB = 2 x 10^-5 µbar.

Maximum sound pressure input level:
Approx. 126 dB SPL
(0 dB = 2 x 10^-5 µbar)

Environmental temperatures:
-4°F to 140°F (-20°C to 60°C) for storage
32°F to 140°F (0°C to 60°C) for operation

GENERAL

Type: One-point stereo electret condenser microphone
FET: Two FETs
Capsule: Electret condenser capsule
Battery: Flashlight battery size AA
EVEREADY No. 1015 (manganese)
E-91 (alkaline)

Microphone cable: 5/32" dia. 9 ft. (3.9 mm dia., 3 m)
cable with two phone plugs

Dimensions:
Screen (88 x 76 x 43) x Case 25 mm dia.
x Total Length 210 (mm)
Screen (3.5 x 3 x 11/16) x Case 1 inch dia.
x Total Length 8 1/2 (inch)

Weight: 15.9 oz (450 g) with the attached cable and battery

SONY
SERVICE MANUAL
1. EXTERNAL VIEW

2. DISASSEMBLY

Screen and Case Removal

1. Turn the direction axis selector knob fully left-ward (90 degrees position).

2. Remove the direction axis selector knob.

3. Remove four screws.

4. Use for fulcrum.

5. Case
Capsule chassis Removal

1. Remove two screws (K2.6 x 5).

2. Remove two terminals.

3. Pull the capsule chassis and remove it.

3. SCHEMATIC DIAGRAM

4. ACCESSORIES

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<td>X-2523-011-0</td>
<td>Cable, microphone; w/two phone plugs</td>
<td>X-2523-013-0</td>
<td>Holder Ass'y, microphone</td>
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<td>1-508-527-21</td>
<td>Plug, microphone connector</td>
<td>1-528-027-11</td>
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<td>1-551-072-XX</td>
<td>Cable, w/two phone plugs</td>
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