



Lavalier Microphones

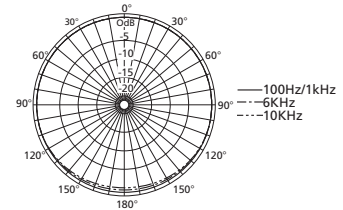
ECM-88 series



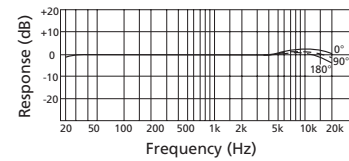
FEATURES

- Ultra-miniature, omni-directional electret condenser microphone.
- Designed for quality-critical applications in broadcasting, theater, and field productions.
- Flat-and-wide frequency response provides natural sound reproduction to enable the addition of sound effects during the mixing process.
- Water-resistant design maintains sound clarity in almost any application or environment.
- Dual-diaphragm mechanism contributes to the high sensitivity, wide dynamic range, and low-noise characteristics.
- Low cable-noise characteristics.
- Miniature design makes it easy to conceal in a stage costume.

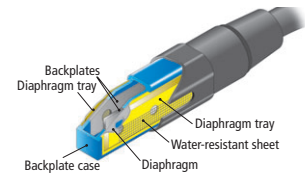
- Four models available:
 - ECM-88B: Black-colored model supplied with a DC-78 DC Power Supply Unit. Two-way powering possible - internal AA-size (LR6) alkaline-battery operation or external DC (12 to 48 V) operation.
 - ECM-88BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B Sony bodypack transmitter.
 - ECM-88BPT: Black-colored model supplied without a connector (pigtail), enabling users to choose connectors according to their transmitter.
 - ECM-88FPT: Beige-colored model supplied without a connector (pigtail).



Directivity Characteristics



Frequency Response Characteristics



Dual-Diaphragm Mechanism

SUPPLIED ACCESSORIES



Single/Horizontal-type tie clip (x 1)
ECM-88FPT is not supplied with mic accessories.



Single/Vertical-type tie clip (x 1)



Double/Horizontal-type tie clip (x 1)
*Supplied with ECM-88B only.



Urethane windscreens (x 1)



Carrying case (x 1)
*Supplied with ECM-88B only.

OPTIONAL ACCESSORIES



AD-KIT88B
Microphone accessory kit



DC-78
DC power supply unit (SMC9-4S to XLR 3-pin)
*Supplied with ECM-88B.



SAD-H88B
Single/Horizontal-type tie clip (x 6)



SAD-V88B
Single/Vertical-type tie clip (x 6)



SAD-W88BL
Double/Horizontal-type tie clip (x 6)



SAD-S88B
Safety-pin type microphone holder (x 6)

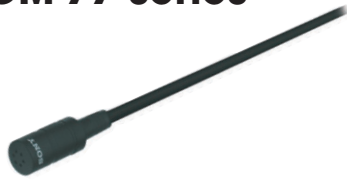


AD-C88
Color windscreens (x 2 sets)



AD-R88B
Urethane windscreens (x 12)

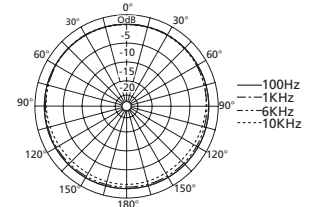
ECM-77 series



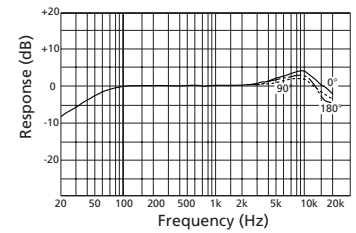
FEATURES

- Miniature, omni-directional electret condenser microphone.
- Worldwide-acclaim for performance and reliability in studio, ENG, and EFP applications.
- Wide frequency response, high sensitivity, and low-noise characteristics.
- Miniature design makes it easy to conceal in a costume.
- Wide model variations to suit specific user requirements. Four models are available:
 ECM-77B: Black-colored model supplied with an in-line battery unit. Two-way powering possible – internal AA-size (LR6) alkaline-battery operation or external DC (12 to 48 V) operation.

ECM-77BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B Sony bodypack transmitter.
 ECM-77BMP: Black-colored model supplied with a 3-pole locking mini plug for use with the bodypack transmitter included in UWP Series.
 ECM-77BPT: Black-colored model supplied without a connector (pigtail).



Directivity Characteristics



Frequency Response Characteristics

SUPPLIED ACCESSORIES



Single/Horizontal-type tie clip (x 1)



Single/Vertical-type tie clip (x 1)
 *Supplied with ECM-77B only.



Double/Horizontal-type tie clip (x 1)
 *Supplied with ECM-77B only.



Metal-mesh windscreen (x 1)



Carrying case (x 1)
 *Supplied with ECM-77B only.

OPTIONAL ACCESSORIES



AD-KIT77
 Microphone accessory kit



DC-78
 DC power supply unit (SMC9-4S to XLR 3-pin)



SAD-H77B
 Single/Horizontal-type tie clip (x 10)



SAD-V77B
 Single/Vertical-type tie clip (x 10)



SAD-W77B
 Double/Horizontal-type tie clip (x 6)



SAD-S77
 Safety-pin type microphone holder (x 6)



AD-C77B
 Urethane windscreen (x 12)



AD-C77
 Color windscreens (x 2 sets)



AD-R77B
 Metal-mesh windscreen (x 6)

ECM-66 series

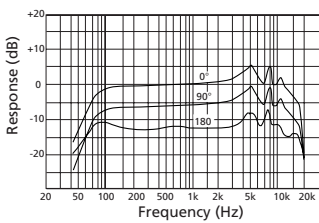


FEATURES

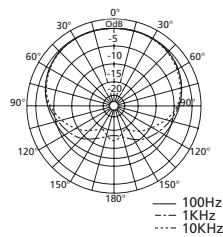
- Uni-directional, electret condenser microphone.
- Resistant to howling by rejecting indirect sound.
- Designed for a wide range of applications from voice to instrumental recording.
- Wide dynamic range (101 dB), and high maximum input-sound-pressure level (130 dB SPL).
- Low inherent-noise characteristics.
- Two models available:

ECM-66B: Black-colored model supplied with an in-line battery unit. Two-way powering possible – internal AA-size (LR6) alkaline-battery operation or external DC (24 to 48 V) operation.

ECM-66BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B Sony bodypack transmitter.



Frequency Response Characteristics



Directivity Characteristics

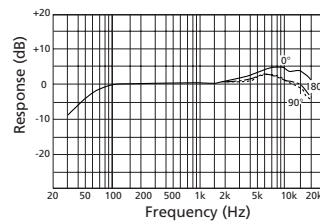
ECM-55 series



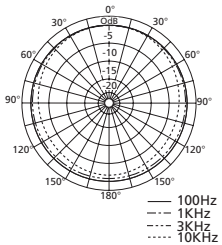
FEATURES

- Omni-directional, electret condenser microphone. Successor to the ECM-50 microphone, the world's first electret condenser lavalier microphone.
- Large microphone head of 7/16 inch diameter offers rich sound reproduction.
- High signal-to-noise ratio and low inherent-noise characteristics.
- One model available:

ECM-55B: Black-colored model supplied with an in-line battery unit. Two-way powering possible – internal AA-size (LR6) alkaline-battery operation or external DC (12 to 48 V) operation.



Frequency Response Characteristics



Directivity Characteristics

SUPPLIED ACCESSORIES



Single/Horizontal-type tie clip (x 1)



Single/Vertical-type tie clip (x 1)

*Supplied with ECM-66B only.



Urethane windscreen (x 1)



Carrying case (x 1)

*Supplied with ECM-66B only.

SUPPLIED ACCESSORIES



Single/Horizontal-type tie clip (x 1)



Single/Vertical-type tie clip (x 1)



Double/Horizontal-type tie clip (x 1)



Metal-mesh windscreen (x 1)



Carrying case (x 1)

OPTIONAL ACCESSORIES



SAD-H55B Single/Horizontal-type tie clip (x 10)



AD-R66B Urethane windscreen (x 12)

OPTIONAL ACCESSORIES



SAD-H55B Single/Horizontal-type tie clip (x 10)



AD-R55B Metal-mesh windscreen (x 6)

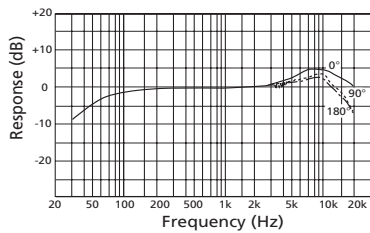
ECM-44 series



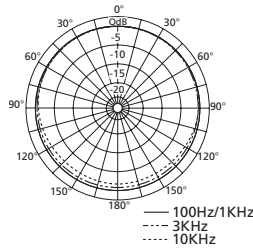
FEATURES

- Omni-directional, electret condenser microphone.
- Cost-effective miniature microphone provides superb sound quality.
- Wide model variations to suit specific user requirements. Four models are available:
 ECM-44B: Black-colored model supplied with an in-line AA-size (LR6) alkaline-battery unit.

ECM-44BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B Sony bodypack transmitter.
 ECM-44BMP: Black-colored model supplied with a 3-pole locking mini plug for use with the bodypack transmitter included in UWP series.
 ECM-44BPT: Black-colored model supplied without a connector (pigtail).



Frequency Response Characteristics



Directivity Characteristics

SUPPLIED ACCESSORIES



Single/Horizontal-type tie clip (x 1)



Urethane Windscreen (x 1)



Carrying case (x 1)
 *Supplied with ECM-44B only.

OPTIONAL ACCESSORIES



DC-78
 DC power supply unit (SMC9-4S to XLR 3-pin)



SAD-H44B
 Single/Horizontal-type tie clip (x 10)



AD-R44B
 Urethane windscreen (x 12)

ECM-166 series



FEATURES

- Uni-directional, electret condenser microphone.
- Resistant to howling by rejecting indirect sound.
- Reasonably priced lavalier microphone ideal for institutional use and sound-contracting applications such as speeches, lectures, and conferences.
- Two models available:
ECM-166BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B Sony bodypack transmitter.
ECM-166BMP: Black-colored model supplied with a 3-pole locking mini plug for use with the bodypack transmitter included in UWP series.

SUPPLIED ACCESSORIES



Single/Horizontal-type tie clip (x 1)



Urethane windscreen (x 1)

ECM-322 series



FEATURES

- Omni-directional, electret condenser microphone
- Ear-clip style design wearable on either the left or right ear
- Secure and comfortably fit with the adjustable soft-texture ear hook and detachable headband
- Ideal for a variety of multimedia presentation applications ranging from seminars, conferences to lectures and workshops
- Two types available:
ECM-322BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B Sony bodypack transmitter.
ECM-322BMP: Black-colored model supplied with a 3-pole locking mini plug for use with the bodypack transmitter included in UWP series.

SPECIFICATIONS

		ECM-88 Series	ECM-77 Series	ECM-66 Series	ECM-55 Series
Model Variations					
XLR type (Supplied with a battery unit and XLR-3-12C type connector.)		ECM-88B with supplied DC-78	ECM-77B	ECM-66B	ECM-55B
Pigtail type (Supplied without a connector <pigtail>.)		ECM-88BPT ECM-88FPT	ECM-77BPT	—	—
SMC type (Supplied with a Sony 4-pin <SMC9-4P> connector.)		ECM-88BC	ECM-77BC	ECM-66BC	—
BMP type (Supplied with a 3.5 mm diameter, 3-pole mini plug.)		—	ECM-77BMP	—	—
Capsule type		Electret Condenser			
Frequency response		20 Hz to 20 kHz	40 Hz to 20 kHz	70 Hz to 14 kHz	30 Hz to 18 kHz
Directivity		Omni-directional		Uni-directional	Omni-directional
Sensitivity	XLR type	-52.0 dB ±2 dB *1	-52.0 dB ±2 dB	-50.0 dB ±2 dB	-52.0 dB ±2 dB
(0 dB=1 V/Pa, at 1 kHz)	Pigtail/SMC/BMP type	-39.0 dB (11.2 mV)		-36.5 dB (15 mV)	—
Output impedance at 1 kHz	XLR type	100 Ω ±20% (balanced) *1	150 Ω ±20% (balanced)	100 Ω ±20% (balanced)	—
	Pigtail/SMC/BMP type	2.5 kΩ ±30% (unbalanced)			—
Dynamic range		99 dB or more	90 dB or more	101 dB or more	98 dB or more
Signal-to-noise ratio (A-weighted, 1 kHz, 1 Pa.)		68 dB or more	64 dB or more	65 dB or more	66 dB or more
Inherent noise (0 dB SPL = 2E-5 Pa.)		26 dB SPL or less	30 dB SPL or less	29 dB SPL or less	28 dB SPL or less
Wind noise (with windscreen, at 2 m/s) (0 dB SPL = 2E-5 Pa.)		45 dB SPL or less	40 dB SPL or less	50 dB SPL or less	40 dB SPL or less
Induction noise from external magnetic field (dB SPL/1E-7 T, 0 dB SPL = 2E-5 Pa.)		5 dB SPL or less			
Maximum input sound pressure level (0 dB SPL = 2E-5 Pa.)		125 dB SPL	120 dB SPL	130 dB SPL	126 dB SPL
Power supply		Battery		IECR6 or LR6 *1	
(XLR type only)	Battery life (LR6)	Approx. 6000 h *1	Approx. 6000 h	Approx. 400 h	Approx. 6000 h
	External power	DC 12 to 48 V *1	DC 12 to 48 V	DC 24 to 48 V	DC 12 to 48 V
Power requirements		XLR type		DC 1.5 V *1	
	Pigtail/SMC/BMP type	DC 1.1 to 10.0 V			
Current drain	XLR type (internal battery)	0.3 mA or less *1	0.3 mA or less	3.5 mA or less	0.3 mA or less
	XLR type (external power)	2 mA or less *1		2 mA or less	
	Pigtail/SMC/BMP type	0.4 mA or less			
Cable length	XLR type	8.2 feet	9.8 feet	—	—
	Pigtail type	8.2 feet	9.8 feet	—	—
	SMC/BMP type	3.9 feet	—	—	—
Dimensions	Microphone head	5/32 x 5/32 x 11/16 inch Clip attachment area: 5/32 inch diameter	1/4 diameter x 1/2 inch	7/16 diameter x 31/32 inch	7/16 diameter x 27/32 inch
	Power unit (XLR type only)	13/16 diameter x 5 3/4 inches	13/16 diameter x 5 1/4 inches	13/16 diameter x 6 2/4 inches	13/16 diameter x 5 1/4 inches
Weight	Microphone head only	0.02 oz (0.6 g)	0.05 oz (1.5 g)	0.25 oz (7 g)	0.23 oz (6.5 g)
	Total XLR type	5.7 oz (162 g)	4.3 oz (122 g)	5.9 oz (167 g)	4.5 oz (127 g)
	Pigtail type	0.7 oz (20 g)	0.9 oz (26 g)	—	—
	SMC type	0.7 oz (22 g)	0.8 oz (23 g)	1.1 oz (30 g)	—
	BMP type	—	0.6 oz (17 g)	—	—
Supplied accessories		S.H. tie clip (x 1) *2 S.V. tie clip (x 1) *2 D.H. tie clip (x 1) *3 U. windscreen (x 1) *2 Microphone case (x 1) *3 Operating instructions (x 1) Ferrite clamp (x 1)	S.H. tie clip (x 1) S.V. tie clip (x 1) *4 D.H. tie clip (x 1) *4 M. windscreen (x 1) Microphone case (x 1) *4 Operating instructions (x 1)	S.H. tie clip (x 1) S.V. tie clip (x 1) *5 U. windscreen (x 1) Microphone case (x 1) *5 Operating instructions (x 1)	S.H. tie clip (x 1) S.V. tie clip (x 1) D.H. tie clip (x 1) M. windscreen (x 1) Microphone case (x 1) Operating instructions (x 1)

*1 ECM-88B used with the supplied DC-78 battery unit.

*2 ECM-88FPT is not supplied with mic accessories.

*3 D.H. tie clip and microphone case are supplied with ECM-88B only.

*4 S.V. tie clip, D.H. tie clip, and microphone case are supplied with ECM-77B only.

*5 S.V. tie clip and microphone case are supplied with ECM-66B only.

		ECM-44 Series	ECM-166 Series	ECM-322 Series
Model Variations				
XLR type (Supplied with a battery unit and XLR-3-12C type connector.)		ECM-44B	—	—
Pigtail type (Supplied without a connector <pigtail>).		ECM-44BPT	—	—
SMC type (Supplied with a Sony 4-pin <SMC9-4P> connector.)		ECM-44BC	ECM-166BC	ECM-322BC
BMP type (Supplied with a 3.5 mm diameter, 3-pole mini plug.)		ECM-44BMP	ECM-166BMP	ECM-322BMP
Capsule type		Electret Condenser		
Frequency response		40 Hz to 15 kHz	100 Hz to 10 kHz	50 Hz to 18 kHz
Directivity		Omni-directional	Uni-directional	Omni-directional
Sensitivity		—		
(0 dB=1 V/Pa, at 1 kHz)		XLR type -53.0 dB ±3 dB	—	—
		Pigtail/SMC/BMP type -40.0 dB (10 mV)	-45 dB (5.6 mV)	-42 dB (7.91 mV)±3db
Output impedance at 1 kHz		—		
		XLR type 250 Ω ±20% (balanced)	—	—
		Pigtail/SMC/BMP type 2.5 kΩ ±30% (unbalanced)	—	1.4 k Ω ±30% (unbalanced)
Dynamic range		90 dB or more	96 dB or more	81 dB or more
Signal-to-noise ratio (A-weighted, 1 kHz, 1 Pa.)		62 dB or more	60 dB or more	—
Inherent noise (0 dB SPL = 2E-5 Pa.)		32 dB SPL or less	34 dB SPL or less	—
Wind noise (0 dB SPL = 2E-5 Pa.)		40 dB SPL or less (with windscreen, at 2 m/s)	—	55 dB SPL or less
Induction noise from external magnetic field (dB SPL/1E-7 T, 0 dB SPL = 2E-5 Pa.)		5 dB SPL or less	—	—
Maximum input sound pressure level (0 dB SPL = 2E-5 Pa.)		122 dB SPL	130 dB SPL	115 dB SPL
Power supply		Battery		
XLR type only)		Battery life (LR6) Approx. 6000 h	—	—
		External power	—	—
Power requirements		XLR type DC 1.5 V	—	—
		Pigtail/SMC/BMP type DC 1.1 to 10.0V	—	—
Current drain		XLR type (internal battery) 0.3 mA or less	—	—
		XLR type (external power)	—	—
		Pigtail/SMC/BMP type 0.4 mA or less	—	1.3 mA or less
Cable length		XLR type 9.8 feet	—	—
		Pigtail type 9.8 feet	—	—
		SMC/BMP type 3.9 feet	—	—
Dimensions		Microphone head 1 ¹¹ / ₃₂ diameter x 1 ¹⁹ / ₃₂ inch	1 ¹ / ₂ diameter X 1 ¹⁵ / ₁₆ inch	1 ¹¹ / ₃₂ diameter x 6 5/ ₈ inch
		Power unit (XLR type only) 1 ¹³ / ₁₆ diameter x 5 inches	—	—
Weight		Microphone head only 0.07 oz	0.12 oz	—
		Total XLR type 4.3 oz	—	—
		Pigtail type 1.0 oz	—	—
		SMC type 0.8 oz	1 oz	0.4 oz without connector
		BMP type 0.6 oz	0.7 oz	0.4 oz without connector
Supplied accessories		S.H. tie clip (x 1) U. windscreen (x 1) Microphone case (x 1) * Operating instructions (x 1)	U. windscreen (x 1) Tie clip (x 1) Operating instructions (x 1)	Headband (x 1), clip (x1) Carrying Case (x 1) Operating Instructions (x 1)

* The microphone case is supplied with only ECM-44B.

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