SONY®

Sony Lavalier Microphones



ECM-88 Series

ECM-77 Series

ECM-66 Series

ECM-55 Series

ECM-44 Series

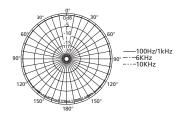
ECM-166 Series

ECM-310 Series

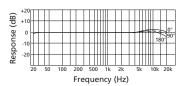


- Ultra-miniature, omni-directional electret condenser microphone.
- Designed for quality-critical applications in broadcasting, theater, and field productions.
- Flat-and-wide frequency response provides natural sound reproduction to enable the addition of sound effects during the mixing process.
- 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 windscreen (x 1)



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



AD-KIT88B Microphone accessory kit



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 windscreen (x 12)



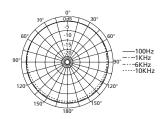
- Miniature, omni-directional electret condenser microphone.
- Worldwide-acclaim for performance and reliability in studio, ENG, and EFP applications.
- Wide frequency response, high sensitivity, and low-noise characteristics.
- Miniature design makes it easy to conceal in a costume.
- Wide model variations 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.

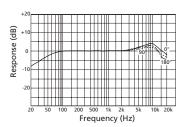
ECM-77BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B Sony bodypack transmitter.
ECM-77BMP: Black-colored

model supplied with a 3-pole mini jack with stable lock mechanism, for use with the UWP Series bodypack transmitter.

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.



Microphone accessory kit



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-W77BDouble/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)



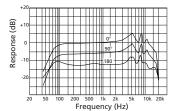
AD-R77B Metal-mesh windscreen (x 6)



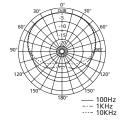
- Uni-directional, electret condenser microphone.
- Resistant to howling by rejecting indirect sound.
- Designed for a wide range of applications from voice to instrumental recording.
- Wide dynamic range (101 dB), and high maximum input-sound-pressure level (130 dB SPL).
- Low inherent-noise characteristics.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



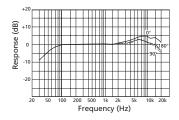
Directivity Characteristics

ECM-55 series

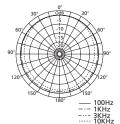
FEATURES

- 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)



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



AD-R55B Metal-mesh windscreen (x 6)



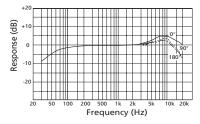
- Omni-directional, electret condenser microphone.
- Cost-effective miniature microphone provides superb sound quality.
- Wide model variations to suit specific user requirements. Four models are available:

ECM-44B: Black-colored model supplied with an in-line AA-size (LR6) alkaline-battery unit.

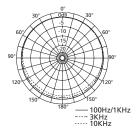
ECM-44BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B Sony bodypack transmitter.

ECM-44BMP: Black-colored model supplied with a 3-pole mini jack with stable lock mechanism, for use with the UWP Series bodypack transmitter.

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.



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 mini jack with stable lock mechanism, for use with the UWP Series bodypack transmitter.

ECM-310 series



FEATURES

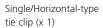
- Lightweight, headset-style microphone.
- Designed for multimedia presentation applications.
- Wide-cardioid, electret condenser microphone provides crisp and clear sound, while isolating undesired sound from surrounding ambience.
- Adjustable hinge and gooseneck for optimum voice pickup.
- Two types available:

ECM-310BC: Black-colored model supplied with a Sony 4-pin connector (SMC9-4P), for use with the WRT-8B/822A/822B Sony bodypack transmitter.

ECM-310BMP: Black-colored model supplied with a 3-pole mini jack with stable lock mechanism, for use with the UWP Series bodypack transmitter.

SUPPLIED ACCESSORIES







Urethane windscreen (x 1)

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>.)</pigtail>		ECM-88BPT ECM-88FPT	ECM-77BPT		_	
SMC type (Supplied with a Sony 4-pin <smc9-4p> connector.)</smc9-4p>		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)		
a a spare impossince at 1 kHz	Pigtail/SMC/BMP type	2.5 k Ω ±30% (unbalanced)				
Dynamic range	3	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,	- ' '	45 dB SPL or less	40 dB SPL or less	50 dB SPL or less	40 dB SPL or less	
(0 dB SPL = 2E-5 Pa.)		45 db 51 L 61 1055	40 db 51 E 01 1033	30 db 31 E 01 1033	40 db 31 L 01 1033	
Induction noise from external (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	IECR6 or LR6		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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	DC 1.5 V	DC 21 to 10 v	DC 12 to 10 V	
	Pigtail/SMC/BMP type	DC 1.3 V DC 1.3 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	3.5 HIA 01 1033	0.5 1117 01 1033	
	Pigtail/SMC/BMP type	2 mA or less 1 2 mA or less 0.4 mA or less				
Cable length	XLR type	8.2 feet 9.8 feet				
Cable length	Pigtail type	8.2 feet	9.8 feet			
	SMC/BMP type	3.9 feet	3.0 leet			
Dimonsions	Microphone head	5/32 X 5/32 X 11/16 inch	1/4 diameter x 1/2 inch	7/16 diameter x 31/32 inch	7/16 diameter x 27/32 inch	
Dimensions	імісторноне неац	Clip attachment area: 5/32 inch diameter	1/4 diameter X 1/2 mcm	7/16 diameter X 3/32 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 2/1 inches	13/16 diameter x 5 1/4 inches	
Weight	Microphone head only	0.02 oz	0.05 oz	0.25 oz	0.23 oz	
	Total XLR type	5.7 oz	4.3 oz	5.9 oz	4.5 oz	
	Pigtail type	0.7 oz	0.9 oz	_		
	SMC type	0.7 oz	0.8 oz	1.1 oz		
	BMP type		0.6 oz			
Supplied accessories	Divii type	S.H. tie clip (x 1) *2	S.H. tie clip (x 1)	S.H. tie clip (x 1)	S.H. tie clip (x 1)	
S: Single type,		S.V. tie clip (x 1) *2	S.V. tie clip (x 1) *4	S.V. tie clip (x 1) *5	S.V. tie clip (x 1)	
D: Double type,		D.H. tie clip (x 1) *3	D.H. tie clip (x 1) *4	U. windscreen (x 1)	D.H. tie clip (x 1)	
V: Vertical type,		U. windscreen (x 1) *2	M. windscreen (x 1)	Microphone case (x 1) *5	M. windscreen (x 1)	
31 ·		1 ' '	Microphone case (x 1) *4	' '	, ,	
H: Horizontal type,		Microphone case (x 1) *3	1 ' '	Operating instructions (x 1)	Microphone case (x 1)	
M: Metal-mesh type,		Operating instructions (x 1)	Operating instructions (x 1)		Operating instructions (x 1	
U: Urethane type		Ferrite clamp (x 1)				

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

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

 $^{^{\}star 3}$ D.H. tie clip and microphone case are supplied with ECM-88B only.

 $^{^{\}star 4}$ 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-310 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>).</pigtail>		ECM-44BPT	_	_		
SMC type (Supplied with a Sony 4-pin <smc9-4p> connector.)</smc9-4p>		ECM-44BC	ECM-166BC	ECM-310BC		
BMP type (Supplied with a 3.5 mm diameter, 3-pole mini plug.)		ECM-44BMP	ECM-166BMP	ECM-310BMP		
Capsule type		Electret Condenser				
Frequency response		40 Hz to 15 kHz	100 Hz to 10 kHz	70 Hz to 12 kHz		
Directivity		Omni-directional	Uni-directional	Wide-cardioid		
ensitivity XLR type		-53.0 dB ±3 dB	_			
(0 dB=1 V/Pa, at 1 kHz)	Pigtail/SMC/BMP type	-40.0 dB (10 mV)	-45 dB (5.6 mV)	-44 dB (6.3 mV)±3db		
Output impedance at 1 kHz	XLR type	250 Ω ±20% (balanced)	_			
	Pigtail/SMC/BMP type	2.5 k Ω ±30% (unbalanced)		800 Ω ±30% (unbalanced)		
Dynamic range		90 dB or more	96 dB or more	93 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 (with windscreen, at 2 m/s)		40 dB SPL or less	_	63 dB SPL or less		
(0 dB SPL = 2E-5 Pa.)						
Induction noise from external magnetic field		5 dB SPL or less	_			
(dB SPL/1E-7 T, 0 dB SPL = 2E-5 Pa	•					
Maximum input sound pressure level (0 dB SPL = 2E-5 Pa.)		122 dB SPL	130 dB SPL	127 dB SPL		
Power supply			_			
(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		0.32 mA or less		
Cable length	XLR type	9.8 feet	_			
-	Pigtail type	9.8 feet	_			
	SMC/BMP type	3.9 feet				
Dimensions	Microphone head	11/32 diameter x 19/32 inch	1/2 diameter X 15/16 inch	13/32 diameter x 5/8 inch		
	Power unit (XLR type only)	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	2.0 oz		
	BMP type	0.6 oz	0.7 oz	1.8 oz		
Supplied accessories	1,60	S.H. tie clip (x 1)	U. windscreen (x 1)	U. windscreen (x 1)		
S: Single type,		U. windscreen (x 1)	Tie clip (x 1)	Operating instructions (x 1)		
H: Horizontal type,		Microphone case (x 1) *	Operating instructions (x 1)			
U: Urethane type		Operating instructions (x 1)				

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

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