

SONY®

Condenser Microphone

C-800G
C-800





The sound all professionals have longed for —The ultimate in sound performance from a high quality vacuum tube

The introduction of digital signal processing has brought many performance advantages to audio recording equipment, particularly in dynamic range and the ability to reproduce delicate and subtle nuances of sound, even at high levels. The design of any new microphone in the digital era has to have a level of performance which will truly complement that of current recording technology.

In the C-800G/C-800, Sony has developed two new microphones which fully meet this criterion. Introduced after a two-year long evaluation program by Sony Music Entertainment, Sony Classical and the world's leading musicians and sound engineers, these microphones use a vacuum tube selected for optimum sonic quality and, in the C-800G, an innovative cooling system.

The result of this unique collaboration between designers, users and musicians are microphones having a warm, natural, rich and powerful but delicate sound with low noise and low distortion. The synergy of many creative talents, the C-800G/C-800 represent the upper limit in state-of-the-art technology, the first choice of all professionals who seek the ultimate in sound quality.



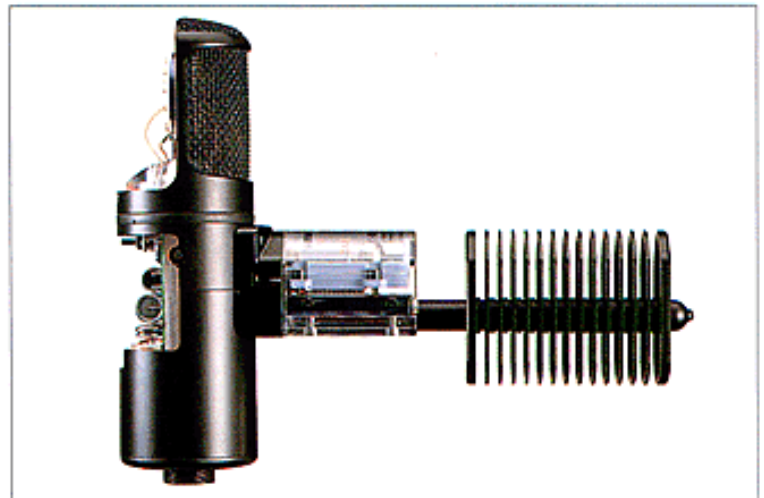


Features

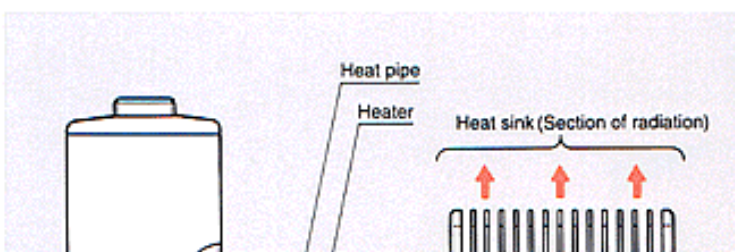
Rigorously Selected Vacuum Tube for the Ultimate in Sound Quality

The use of rigorous parameter selection procedures for the 6AU6A vacuum tube used in the C-800G/C-800 give these microphones superb sonic quality, particularly at high frequencies, and with exceptionally low noise levels. They also have an expanded dynamic range and increased ability to resolve subtle sound detail. Their sonic quality is expressed as rich, natural, mellow, sensitive with an outstanding response to fast transients.

Particularly when complemented by digital recording systems, the superbly natural sound of the C-800G/C-800 will meet the most critical expectations of all professionals working in the demanding fields of recording and production.

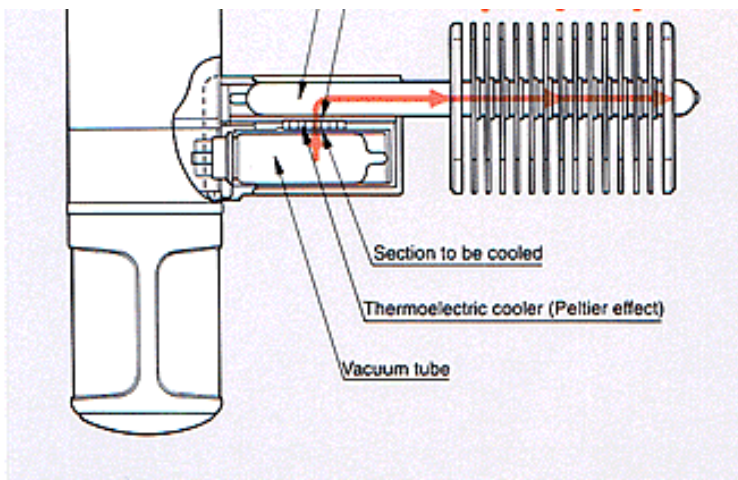


Advanced Cooling System for Superb Audio Quality (C-800G)

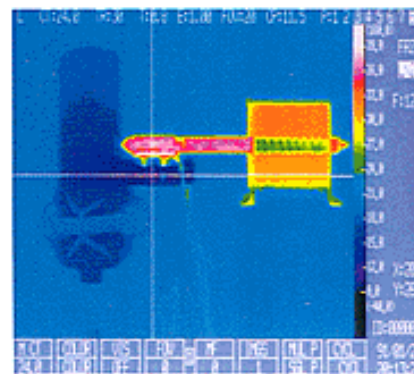


The significant amount of heat generated in a condenser microphone using a vacuum tube can have an adverse effect on its sound quality.

To achieve the performance required for the C-800G, this heat generation is actively countered by the use of a built-in, semi-conductor based, cooling system. This system is a combination of three elements; a semi-conductor Peltier



in, semi-conductor based, cooling system. This system is a combination of three elements; a semi-conductor Peltier effect heat pump, a heat conducting pipe and an external



heat sink where the heat is radiated. By lowering the internal microphone temperature, this efficient cooling system gives a major reduction in noise and distortion, providing the C-800G with its superb, natural, sound quality.

Noise Elimination Construction

The C-800G/C-800 incorporate an aluminium body divided into two parts which effectively prevents acoustic vibration from reaching the microphone

capsule. The result is an output which is free from any component caused by vibration of the microphone body, providing clarity of reproduction.

Specifications

		C-800G	C-800
Performance	Capsule type	Condenser	
	Vacuum tube	6AU6A	
	Frequency response	20 Hz to 18,000 Hz	20 Hz to 22,000 Hz
	Directivity	Uni-directional/Omni-directional	
	Output impedance at 1 kHz	100 Ω \pm 20%, balanced	200 Ω \pm 20%, balanced
	Sensitivity at 1kHz	-28.0 dB/Pa (Uni-directional) -31.0 dB/Pa (Omni-directional)	-44.0 dB/Pa (Uni-directional) -46.0 dB/Pa (Omni-directional)
	Signal-to-noise ratio	More than 76 dB (Uni-directional) More than 73 dB (Omni-directional) (1 kHz 1 Pa IEC 651, A-weighted)	More than 70 dB (Uni-directional) More than 68 dB (Omni-directional) (1 kHz 1 Pa IEC 651, A-weighted)
	Inherent noise	Less than 18 dBSPL (Uni-directional) Less than 21 dBSPL (Omni-directional) (IEC 651, A-weighted)	Less than 24 dBSPL (Uni-directional) Less than 26 dBSPL (Omni-directional) (IEC 651, A-weighted)
	Max. input sound pressure level	131 dBSPL (71 Pa) (Uni-directional) 134 dBSPL (100 Pa) (Omni-directional) (1 kHz 1% distortion)	150 dBSPL (631 Pa) (Uni-directional) 152 dBSPL (794 Pa) (Omni-directional) (1 kHz 1% distortion)
	Dynamic range	More than 113 dB	More than 126 dB
General	Power requirements	AC100, 120, 220 or 240 V, 50/60 Hz (AC-MC800G, AC-MC800)	
	Power consumption	(AC-MC800G)35W	(AC-MC800)30W
	Dimensions	Microphone: ϕ 57 x 191(H) x 237(D) mm (ϕ 2 1/4 x 7 5/8 x 9 3/8 inches) (AC-MC800G): 214(W) x 105(H) x 316(D) mm (8 1/2 x 4 1/4 x 12 1/2 inches)	Microphone: ϕ 57 x 196(H) mm (ϕ 2 1/4 x 7 3/4 inches) (AC-MC800G): 214(W) x 105(H) x 312(D) mm (8 1/2 x 4 1/4 x 12 3/8 inches)
	Weight	Approx. 900g (1 lb 16 oz)	Approx. 590g (1 lb 5 oz)

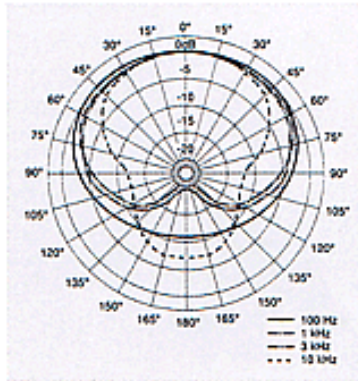
	(8 1/2 x 4 1/4 x 12 1/2 inches)	(8 1/2 x 4 1/4 x 12 3/8 inches)
Weight	Approx. 900g (1 lb 16 oz)	Approx. 590g (1 lb 5 oz)
	(Cradle suspensions) Approx. 210g (7 oz)	
	(AC-MC800G) Approx. 5.4 kg (11 lb 14 oz)	(AC-MC800) Approx. 4.5 kg (9 lb 15 oz)
Connector	Microphone MIC output: JR16RK-7P type AC-MC800G MIC input: JR16RK-7S type Audio output: NC3MDL-B-1 type	Microphone MIC output: NC6M type AC-MC800 MIC input: NC6FDL-B-1 type Audio output: NC3MDL-B-1 type
Supplied accessories	Wind screen (x1) Cradle suspension (x1) Stand screw adaptor (PF 1/2→ NS 5/8) (x1) Stand screw adaptor (PF 1/2→ W 3/8) (x1) Microphone cable (x1) Carrying case (x1) Sticker (x1) Frequency response chart (x2)	Wind screen (x1) Cradle suspension (x1) Stand screw adaptor (PF 1/2→ NS 5/8) (x1) Stand screw adaptor (PF 1/2→ W 3/8) (x1) Microphone cable (x1) Carrying case (x1) Screwdriver (x1) Frequency response chart (x2)
Optional accessory	AC-MC800G (AC power supply unit)	AC-MC800 (AC power supply unit)

*Design and specifications subject to change without notice.

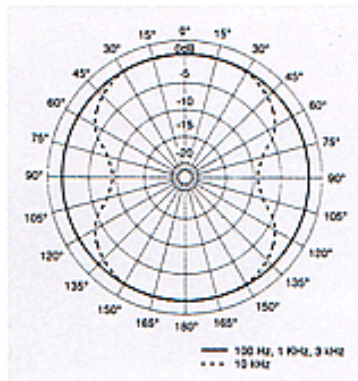
Directivity

C-800G

Uni-direction

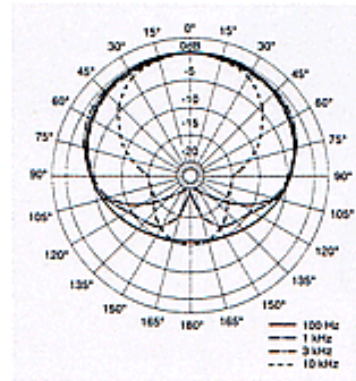


Omni-direction

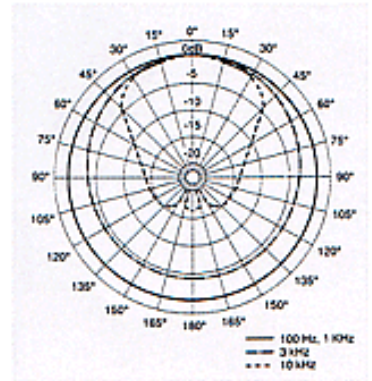


C-800

Uni-direction



Omni-direction



C-800G

- Designed for the highest possible sound reproduction quality, warm, powerful, smooth and with fast transient response
- Particularly suitable for critical vocal recording in recording studios and film post production houses
- High sensitivity of -28 dB/Pa
- Low noise and low distortion due to a built-in thermoelectric cooling system employing a semiconductor device, heat pipe, and heat sink, the first microphone in the world to use this technique.
- Fitted with a large diaphragm capsule
- Electronically selectable directivity, either Omni- or Uni- directional





AC-MC800G AC Power Supply Unit (Optional)



C-800



- Ideal for high quality recording of musical instrument at recording studios and for film post production
- Successor to the world famous Sony C-37A
- 150dB SPL input capability and wide dynamic range
- Warm, clear and natural reproduction of wide frequency range sound
- Mechanically selectable directivity, either Omni- or Uni- directional
- Fitted with a large diaphragm capsule



AC-MC800 AC Power Supply Unit (Optional)



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