



Japan's most original microphone maker.

CMS-2

MS Stereo Condenser Microphone

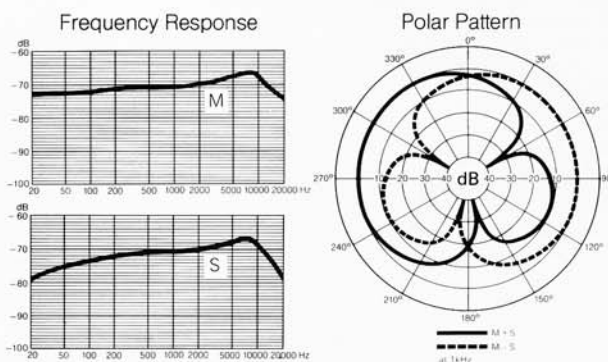
The Sanken CMS-2 is the world's smallest and lightest MS stereo microphone for TV and radio broadcasting, motion picture making and studio recording. Delivering a natural, uncolored sound and offering perfect reproduction of the stereo sound image, it is ideal as a main microphone for orchestras or musical groups. It is also excellent for capturing difficult sound ambiances of live audiences at pop concerts, talk shows, etc. It features a very flat frequency response (20Hz to 18kHz), and inaudible self-noise (16dB or less), which suit it well for compact disc recording. It also features an original Sanken Push-Pull type capsule design which gives it a 6dB higher sensitivity than similar sized conventional microphones. It has a high dynamic range of 129dB (maximum SPL=145dB at 1% THD). Like all Sanken microphones, it has a one-micron titanium diaphragm that is light, strong, corrosion-free and immune to temperature and humidity changes. Its output from the M-5 matrix box is a pre-set 127° perspective; this can be changed with an optional MS stereo perspective controllable matrix box. The CMS-2 can work with any standard matrix box.

Specifications

Transducer Type:	Push-Pull DC bias condenser
Directional Pattern:	Mid=Cardioid, Side=Figure 8
Diaphragm:	Titanium membrane
Frequency Response:	20Hz to 18kHz
Sensitivity at 1kHz:	2.8mV/Pa -51dB
Nominal Impedance:	250 ohms $\pm 20\%$
Recommended Load Impedance:	1,000 ohms or higher
Equivalent Noise Level:	16dB or less
A weighted rms (IEC 179)	(0dB= 2×10^{-5} Pa)
Maximum SPL for 1.0% THD at 1kHz:	145dB
Connector:	5-pin XLR type;
	Pin 1=ground,
	Pin 2=mid-mic audio (positive),
	Pin 3=mid-mic audio,
	Pin 4=side-mic audio (positive),
	Pin 5=side-mic audio,
	48 \pm 4V phantom
Supply Voltage:	Mid=1.4mA, Side=1.4mA
Current Consumption:	176mm (length) \times 20.5mm
Dimensions:	(grip diameter) \times 43mm
	(widest microphone head diameter)
	[6.9 in. \times 0.8 in. \times 1.7 in.]
Weight:	180g (0.40 lbs.)
Case:	Brass construction, steel screen,
	sat in nickel (or mat black) plated finish
	Specifications subject to change without notice.



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Included Accessories:

1. MM-2 mount and two female thread adaptors
2. Carrying box with calibration chart

Optional Accessories:

1. M-5 matrix box
2. P-41B power supply
3. SC-5 5-pin XLR microphone cable assembly (available in various lengths)

Note: Left and right sides of stereo image are determined when the microphone head is set up (side with the SM mark is the front side). When the microphone is suspended upside down, L and R will be reversed.



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Microphone Accessories

M-5 Matrix Box

The M-5 is a matrix box that does not need a power supply. It uses two transformers and contains two inputs (XLR3-31) and two outputs (XLR3-32). It is designed for use with the Sanken CMS-2 microphone, but it can also be used with other microphones, provided the maximum input level for 1.0% THD at 1kHz is less than -10dBv (300mV). Output of the M-5 is a fixed 127° stereo perspective.

Specifications

- Matrix Transformer Ratio: Primary side=1; Secondary sides=0.7 each
- Frequency Response: 20Hz to 40kHz $\pm 0.5\text{dB}$
- Maximum Input Level for 1.0% THD at 1kHz: -10dBv (300mV)
- Connectors to Input: For M input (XLR3-31); Pin 1=ground, Pin 2=S (positive), Pin 3=S For S input (XLR3-31); Pin 1=ground, Pin 2=S (positive), Pin 3=S
- Connectors to Output: For M+S output (XLR3-32); Pin 1=ground, Pin 2=M+S (positive), Pin 3=M+S For M-S output (XLR3-32); Pin 1=ground, Pin 2=M-S (positive); Pin 3=M-S
- Dimensions: H=53mm (2.1 in.), W=150mm (5.9 in.), D=210mm (8.3 in.)
- Weight: 1kg (2.2 lbs.)
- Construction: Aluminum chassis with aluminum cover finished in black.

Specifications subject to change without notice.

P-41B Power Supply

The P-41B is a specially designed AC power source that provides 48V phantom powering via DIN 45596 to one Sanken CMS-2 microphone. It keeps ripple voltage under 05mV and operates both at 50 and 60Hz on the two voltage ranges (100–130V and 200–240V).

Specifications

- Operating Voltages: 100–130 VAC; 200–240 VAC; 50/60Hz
- Output Phantom Voltage (DIN 45596): 48V
- Current Consumption: 20mA
- Power Consumption: 2.4W
- Ripple: Less than 0.05mVrms (connected to CMS-2)
- Supply Voltage Polarity: Pin 1 and case=0V; Pin 2, 3, 4 and 5=+48V
- Connector to Microphone: XLR5-31; Pin 1=ground, Pin 2=mid-mic (positive), Pin 3=mid-mic, Pin 4=side-mic (positive), Pin 5=side-mic
- Connectors to Output: For M+S output (XLR3-32); Pin 1=ground, Pin 2=M+S (positive), Pin 3=M+S For M-S output (XLR3-32); Pin 1=ground, Pin 2=M-S (positive); Pin 3=M-S
- Dimensions: H=53mm (2.1 in.), W=150mm (5.9 in.), D=210mm (8.3 in.)
- Weight: 1.1kg (2.4 lbs.)
- Construction: Aluminum chassis with aluminum cover finished in black.

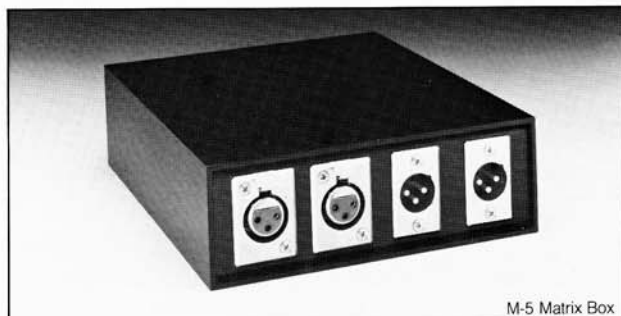
Specifications subject to change without notice.

MM-2 Mount with Two Female Thread Adaptors

The MM-2 is a swivel mount which has a plastic clamp with a 20.5mm inside diameter for accepting the Sanken CMS-2. It has a $\frac{1}{2}$ " threaded coupling and a reducing adaptor for $\frac{5}{8}$ "-27 (ADF1258) and $\frac{3}{8}$ " (ADF1238) thread studs.

SC-5 Cable Assembly

The SC-5 5-pin XLR microphone cable assembly connects the Sanken CMS-2 microphone to the P-5 power supply.



M-5 Matrix Box



P-41B Power Supply



MM-2 Mount with Two Female Thread Adaptors



SC-5 Cable Assembly

Dealer: