



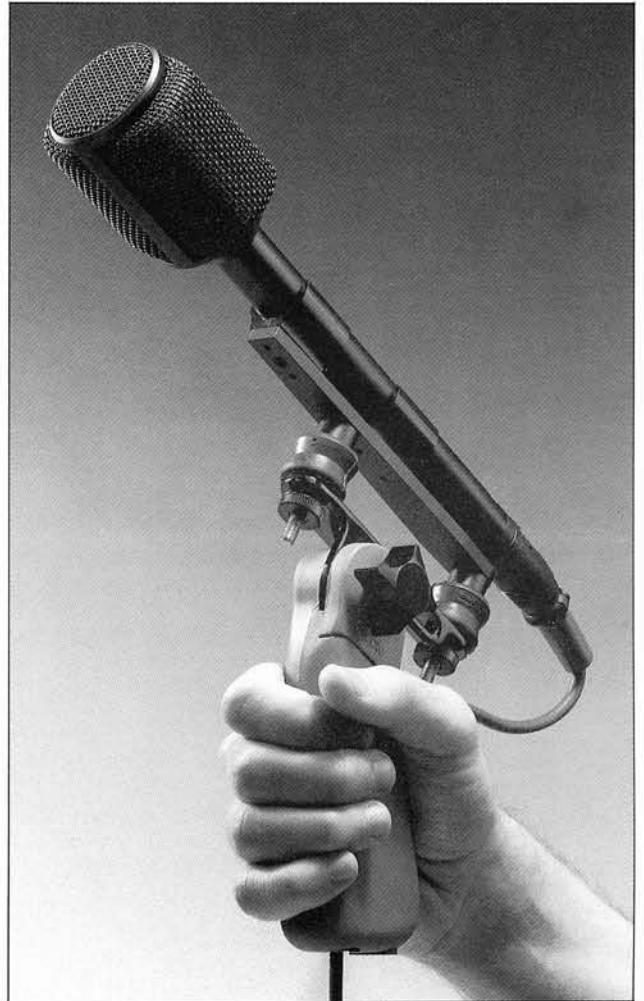
Japan's most original microphone maker

# CMS-9

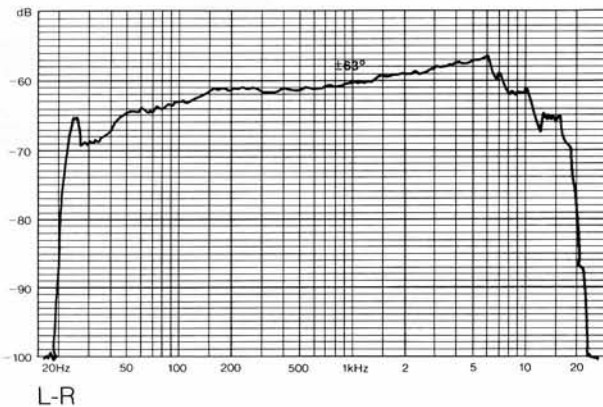
## M-S Stereo Portable Condenser Microphone

- Outputs L-R stereo signals
- Connects directly to a field recorder
- Mounts to any standard 19mm diameter hand grip

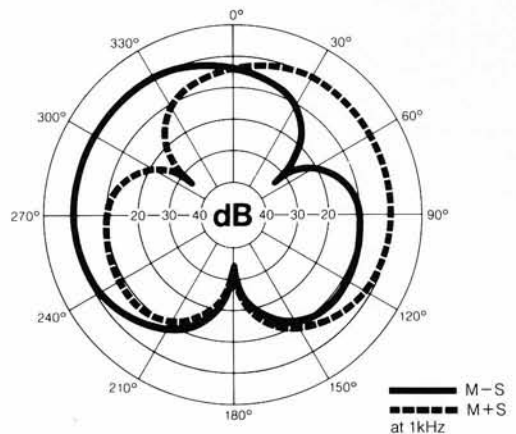
The Sanken CMS-9 is a lightweight M-S stereo condenser microphone ideal for all studio and field recording applications. Its unique design features an internal 'Mid-Side' sum and difference processing circuit which, by eliminating the need for an external matrix box, makes the mic extremely mobile and easy to handle. The CMS-9 outputs fixed stereo signals which can be input directly to a field recorder or portable DAT machine equipped with L-R inputs and 48V phantom power. Its unique two-layer windscreen and solid construction assure quiet recording, even in difficult outdoor environments where wind and handling noises can be a problem. Like all Sanken microphones, the CMS-9 features a one-micron titanium diaphragm that is light, strong, corrosion-free and immune to temperature and humidity changes. It uses the same capsules as Sanken's CMS-7 MS Stereo Mic, and offers Sanken's original Push-Pull capsule design, which gives it a sensitivity 6dB higher than similar sized non-Push-Pull microphones. It has a dynamic range of 111dB (maximum SPL=130dB at 1% THD), a nearly flat frequency response, and inaudible self-noise (19dB or less) for a clear stereo image with clean, uncolored sound.



Frequency Response



Polar Pattern



## Specifications

Transducer Type: Push-Pull DC bias condenser  
 Directional Pattern: Mid=Cardioid, Side=Figure-8  
 (L-R outputs fixed at 127° aperture;  
 M and S outputs are added and  
 subtracted at a 1:1 ratio)  
 Diaphragm: Titanium membrane (1 micron)  
 Frequency Response: 50 Hz to 20kHz  
 Sensitivity at 1kHz: 10mV/Pa  
 Nominal Impedance: 70 ohms per channel, balanced output  
 (transformerless)  
 Recommended Load Impedance: 600 ohms or higher  
 Equivalent Noise Level: 19dB or less  
 A weighted rms (IEC 179) (0dB=2×10<sup>-5</sup> Pa)  
 Maximum SPL for 1.0% THD at 1kHz: 130dB  
 Connector: 5-pin XLR type; 1=ground, 2=left (pos.),  
 3=left (neg.), 4=right (pos.), 5=left (neg.)  
 Supply Voltage: 48±4V Phantom  
 Current Consumption: 2×2.1mA

Dimensions: 235mm×19mm (body diameter)×61mm  
 (widest microphone head diameter)  
 [9.2 in.×0.7 in.×2.4 in.]  
 Weight: 200g (0.44 lbs.)  
 Case: Brass construction and steel screen  
 with black finish; left, right, top and  
 bottom sides are clearly indicated  
 Specifications subject to change without notice.

### Included Accessories:

1. Carrying box (includes calibration chart)
2. SC-91 cable assembly (from 5-pin XLR to two 3-pin XLRs)  
(length: 1.8m; 5.9 ft.)
3. MM-19 mount with two female thread adaptors
4. Foam-type windscreens

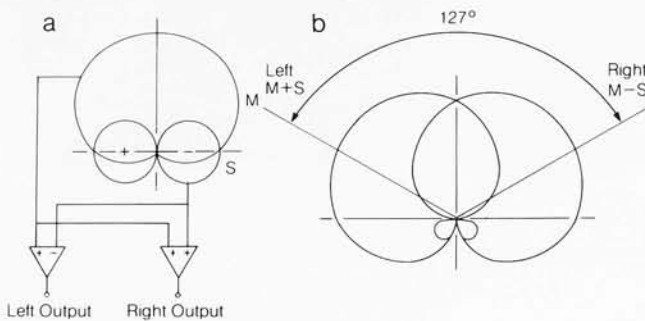
### Optional Accessories:

1. GS-9 Pistol Grip Suspension
2. WS-7 Wind Shield
3. WJ-7 Wind Jammer

## The M-S ('Mid-Side') Stereo Technique

The CMS-9 MS Stereo Microphone incorporates two capsules: a mid-mic with a unidirectional cardioid polar pattern, and a coincidentally mounted side-mic with a figure-8 pattern. This arrangement, which accurately determines spatial localization, reproduces natural ambient stereo sound fields. Since the M-S technique permits the source's soundwaves to reach both capsules in-phase, it is completely mono compatible.

Fig. 1: M-S Stereo Recording Principles



The M-S circuit is built into the CMS-9's grip. The L-R stereo outputs can connect directly to a field recorder with 48V phantom power.

Dealer: