



The world's most original microphone maker

CMS-10 Stereo Shotgun Camera Microphone

CMS-10MS Microphone to Match the New HD Standards

The Sanken CMS-10, the world's first camera mount Stereo Shotgun microphone, was developed in conjunction with NHK for HDTV broadcasting of the Nagano Winter Olympics. Since its world debut, it has become the new industry-wide standard microphone for use with HD cameras. While compact and lightweight, the CMS-10 provides extremely high-resolution audio to match today's advanced picture quality.

Unique Design

The CMS-10, uses M-S design to provide stereo or mono with superior frontal directionality and a rejection of sounds from the sides and back, making it ideal for noisy shooting situations or reverberant environments. The built-in Mono/Stereo switch allows output of a highly directional mono signal to both L/R channels or a L/R stereo signal. **(The CMS-10 is also available in an MS version. It is M - S output only.)** The supplied suspension camera-mount eliminates vibrations from both camera and operator movement. The condenser elements use exclusive PPS (Poly - Phenylene Sulfide) diaphragms to provide exceptional response and optimum humidity / temperature stability.

Conventional shotgun microphones use a line capsule array and a pipe with slits in front of the capsule to create high directivity by utilizing phase interface within the casing. With the traditional design, maintaining high directivity at low frequencies requires a length of more than 20 inches in length.

Unlike conventional shotgun microphones, the CMS-10 uses a unique second-order pressure gradient design, enabling precision directional response through multiple cardioid elements in a front-back array. The capsules combine line microphone performance and second-order gradient response in a single compact [8.6 inch long] system.

Versatile

For episodic television, film/video documentaries, and major broadcast events, it has become



desirable to record targeted sounds precisely, with the added option of capturing realistic stereophonic perspectives. In many cases, engineers have accomplished this with a pair of shotgun microphones, or with the combination of a shotgun mic and an MS-stereo mic. Both methods are lacking because of problems in stereo localization, accurate width of the sonic image and clarity of the audio. In addition, multiple microphone configurations impair field mobility and sonic consistency.

Stereophonic localization depends primarily on signal accuracy and channel separation in the 400Hz to 3kHz range. Pattern control of the CMS-10 has been optimized in this range. Very low and very high frequency response has been optimized along the frontal axis so that the "target" on-axis sounds are clearly delineated. The result in play back accentuates the frontal image, with side signals positioned slightly behind.





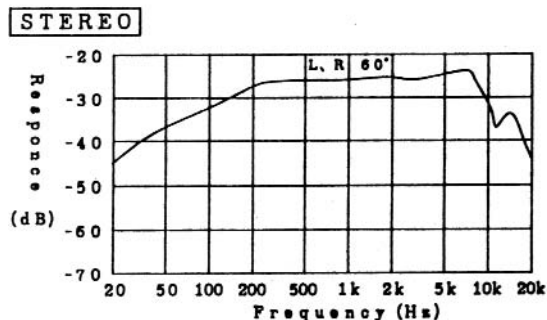
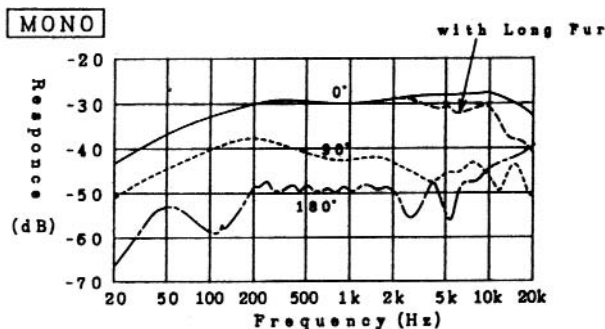
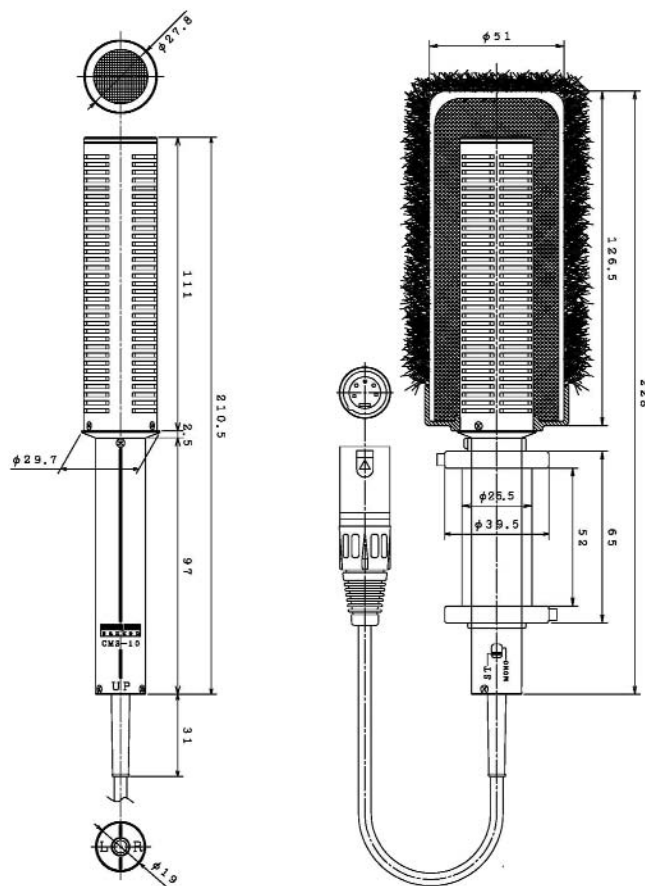
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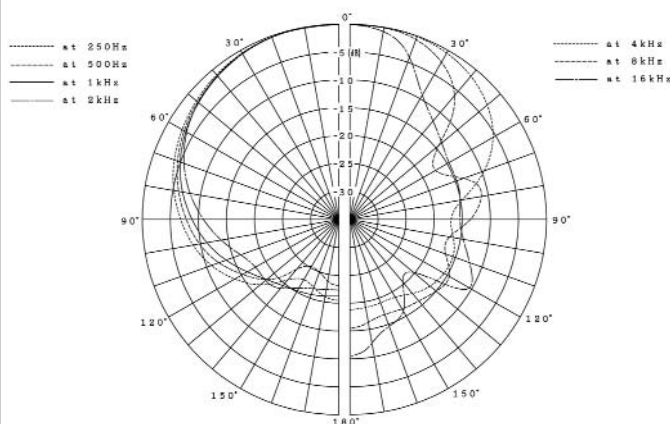
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PRODUCT SPECIFICATIONS:

Transducer	DC biased condenser microphone
Capsule directivity	MID.....Narrow angle hyper cardioid SIDE.....Figure eight
Sensitivity	STEREO-26dB(50mV)+1dB MONO-30dB(32mV)+1dB(0dB=1V/Pa, 1kHz)
Equivalent Noise Level	STEREO20dB(A weighted) MONO22dB(A weighted)
MAX SPL (THD less than 1%)	more than 120dB SPL
Output Impedance	240 ohms
Output connector	Cable direct out from the microphone, cable length 0.26m, connector XLR-5M. Connectable to "front" mic-input of most HD-camcorders stereo Mic-In
Connector Pin Layout	1 Ground, 2 Lch +, 3 Lch -, 4 Rch +, 5 Rch - Phantom feed to 2 & 3, 4 & 5
Consumption Current	less than 4mA
Weight	170g
Finish	Lusterless black soft touch coating
Switch:	CMS - 10 : Mono / L - R output selection CMS - 10 MS: M - S output only (CMS - 10 MS has no switch.)



CMS-10 POLAR PATTERN



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