



The world's most original
microphone maker.

CO-100K



Preliminary

An omni-directional ultra-wide range condenser microphone with a frequency response from 20Hz right up to 100kHz ! .

- >> 20Hz ~ 100kHz Microphone
- >> For Professional Recording
- >> Unique Diaphragm Design

100kHz microphones do exist in the field of acoustic measurement but the Sanken CO-100k is the first such device for use in the professional recording world. Designed in conjunction with the NHK Science and Technical Research Laboratories, this microphone is Sanken's solution for those exceptional engineers who want to record a complete sonic picture from 20Hz to 100kHz.

Sanken has already carried out a number of test recordings with the CO-100k using specialist hardware that can preserve such a wide bandwidth. These tests amply demonstrate the exceptional signal-to-noise ratio and the stunning frequency response of this microphone, and we are confident that it will gain a very warm welcome from those in the fields of classical and acoustic

instrument recording, and from specialists in sound effect work.

Within the conventional "audible frequency" band of 20Hz to 20kHz the performance is exemplary, with rich lows and a tasteful mid range -clearly different. But the CO-100k also gives us the opportunity to experience musical sounds far beyond that somewhat arbitrary upper frequency limit.

This is a new step, a new adventure into the realms of musical detail and nuance that we have never been able to reach before.

SPECIFICATIONS

Transducer: DC bias condenser microphone

Directivity: Omni

Sensitivity: -35dB (17.8mV)/Pa

Frequency Res: 20Hz ~ 100kHz

Output impedance: 200 Ohms

Equivalent Noise: less than 22dBA

Max. Input: more than 137dB SPL(THD 1%)

Powering: 48V phantom

Consumption current: less than 4mA

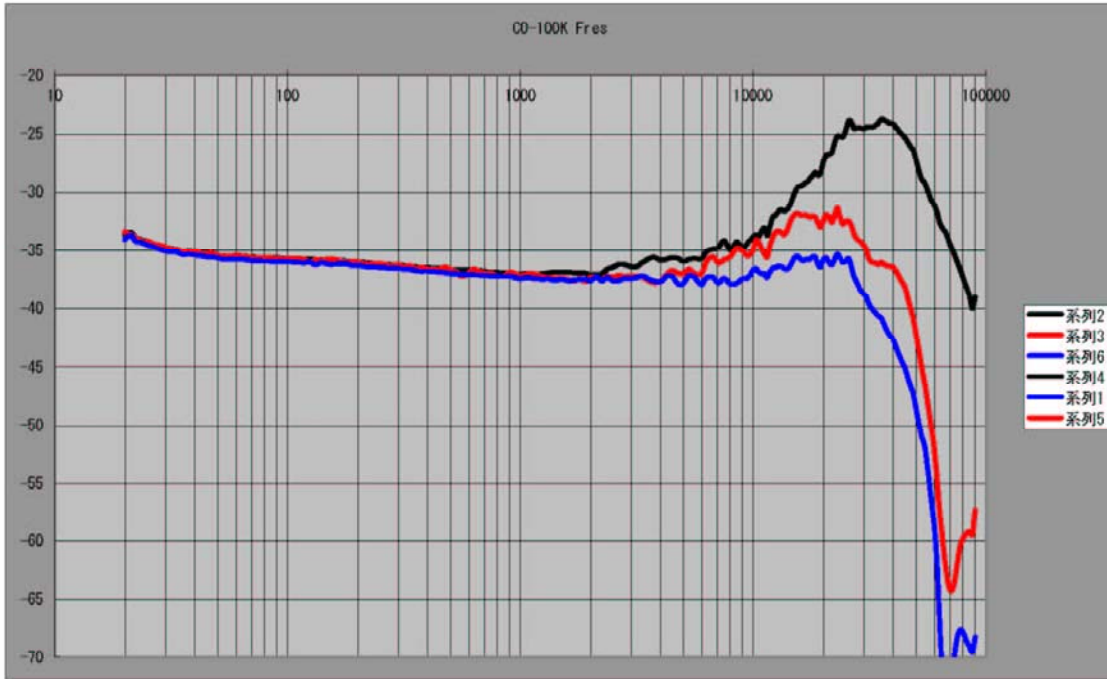
Weight: 150g

NOTE: energy of more than 20kHz especially near 100kHz decrease unexpectedly and severely, therefore, in order to record music sound, frequency 20kHz to 100kHz, the mic has peak at 20kHz to 70kHz on axis. It's omni design, but from physics theory, higher frequency has comparatively sharp directivity.



The world's most original
microphone maker.

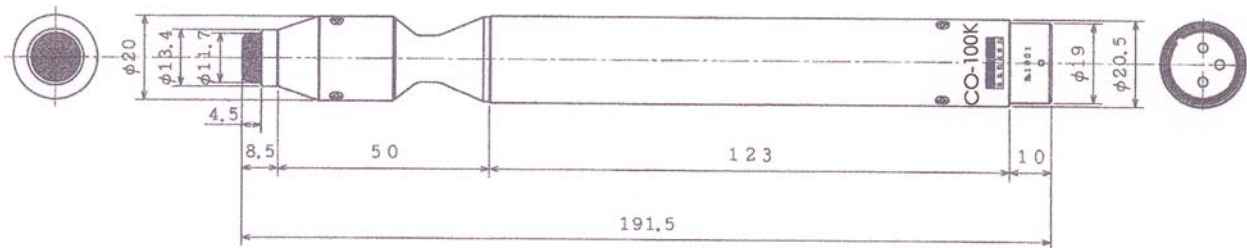
CO-100K Frequency Response



0 degree

90 degree

180 degree



CO-100K Dimension Drawing

Subject to change without notice.