

## An Omnidirectional Super Wide Range Condenser Microphone With Unprecedented 20Hz to 100kHz Frequency Response



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

The Sanken CO-100K is the first 100kHz microphone in the world designed for actual professional recording, not for measurement purposes. A revolutionary microphone designed with NHK's Science & Technical Research Laboratories, it is Sanken's response to those enthusiastic engineers who wish to record frequencies as high as 100kHz. After rigorous test recordings, it was found that this microphone is especially suited for classical music, acoustic instrument and sound effect recording.

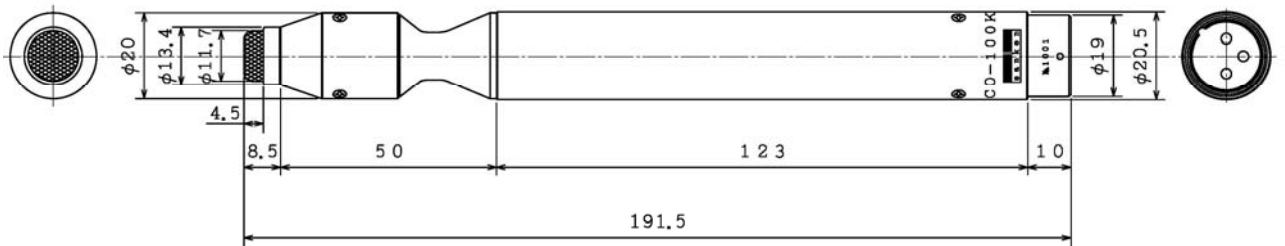
Prominent owners have used two CO-100K in stereo pairs, overall string sections, and in four and five channel arrays for surround and front of orchestra.

Within the conventional "audible frequency" band of 20Hz to 20kHz the performance is exemplary, and clearly different. But the CO-100K also provides the opportunity to experience musical sounds far beyond the typically accepted upper frequency limit. The CO-100K is a new step in microphone technology, providing new realms of musical detail and nuance that has never before been possible.

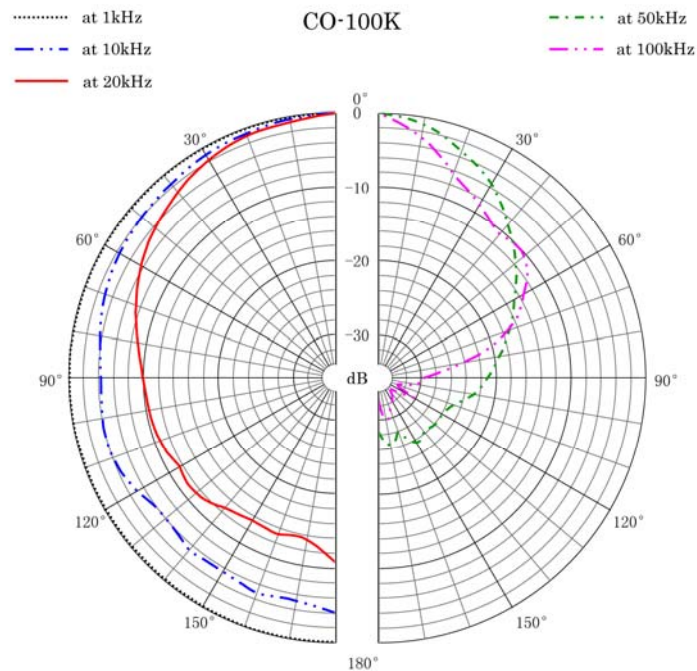
## <Specifications>

Directivity	Omni directional
Transducer	DC biased condenser
Frequency range	20Hz - 100kHz
Sensitivity (nominal at 1kHz)	39.8mV/Pa ( -28dB,0dB=1V/Pa)
Equivalent noise level (A-weighted)	22dB-A
Max SPL (1% THD)	125dB SPL
Output impedance at 1kHz	150Ω
Powering	+48±4V phantom
Current consumption	Less than 6mA
Weight	150g
Dimensions	191.5mm X 20.5mm (diameter)
Surface finish	matte black
Connector	XLR-3M

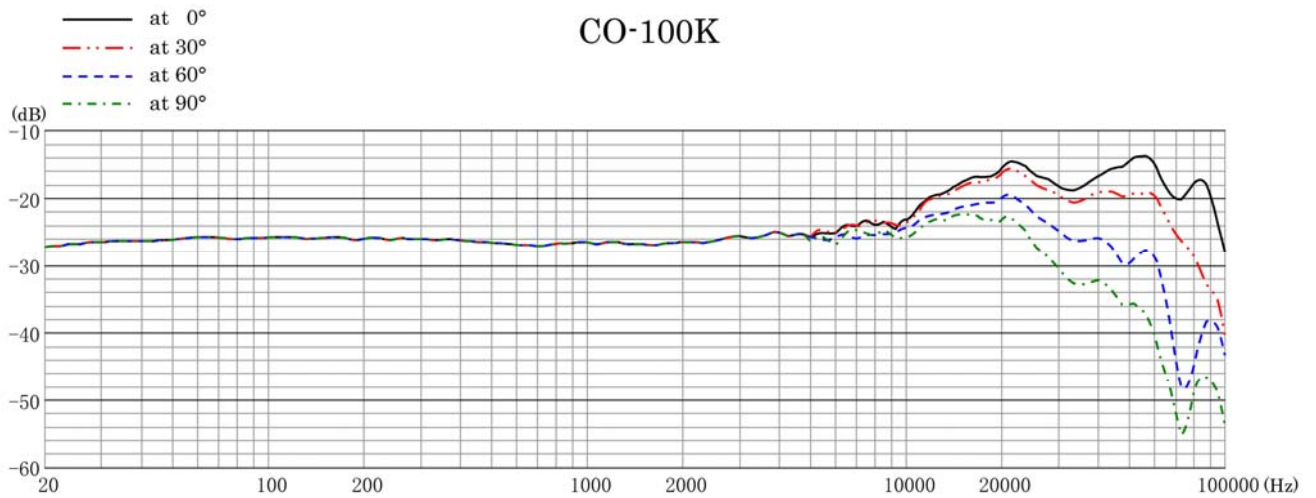
## <Dimensions>



## <Polar Pattern>



<Frequency Response>



NOTE: The energy of more than 20kHz especially near 100kHz decrease unexpectedly and severely.

Therefore, in order to record music sound, frequency 20kHz to 100kHz, the CO-100K has peak at 20kHz to 70kHz on axis.

It's omni directional design, but from physics theory, higher frequency has comparatively sharp directivity.

< Optional accessories >

**GS-100**

Suspension holder



**RB-100**

Spare rubber parts  
(2 in one set)



Specifications are subject to change without notice

**SANKEN MICROPHONE CO., LTD.**

2-8-8 Ogikubo, Suginamiku, Tokyo 167-0051 Japan

Phone: +81 3 3392 6581 FAX: +81 3 3393 2055 [www.sanken-mic.com](http://www.sanken-mic.com)