

## High Transient Response, Transformerless Microphone

The CU-44X MkII as a specially-designed 2-way capsule, one for the bass and one for the high frequencies. This unique design with dual titanium diaphragms is a meticulously engineered microphone which produces a completely transparent and high-resolution sound suitable for today's advanced high sampling digital recordings. The CU-44X MkII also features a unique capsule mounting scheme to ensure phase coherency between the two capsules. The titanium membranes of the CU-44X MkII are immune to the effects of humidity and temperature change, resulting in a totally consistent response, regardless of the recording environment



In 1982, Sanken introduced the first of the company's dual capsule microphones, the CU-41, a cardioid condenser microphone which established a new standard for music and voiceover recording. The CU-41's 2-way capsule provided flat frequency response and distortion-free performance from 20Hz to 20kHz, resulting in a completely natural and uncolored sound. The CU-44X introduced in 1988 was an output-transformerless version of the popular CU-41. The high speed transient characteristics of a transformerless design afforded new degrees of accurate spatial reproduction and colorless sonic transparency. While the CU-44X required a special PSU power supply, the new CU-44X MkII conveniently houses the 48V phantom power supply within the body of the microphone.

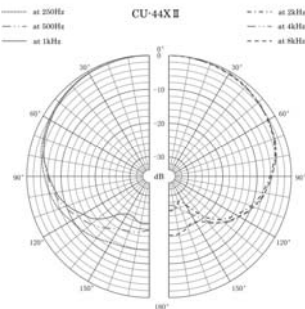
The CU-44X MkII's frequency response is totally flat — not only on axis, but also at 90 degrees, and even at 135 degrees. This capacity is essential in maintaining absolute sonic transparency. The smooth cardioid polar pattern and uniform response over the entire frequency range allows the CU-44X MkII to capture both the designated audio target as well as the naturally reflected sounds, with identical optimum response.

The CU-44X MkII has the desirable characteristics of a transformerless design, achieving superior transient response and vivid sonic imagery. This revolutionary new microphone has a maximum input level of 140dB (1% THD), making it capable of withstanding extremely high sound pressure levels without distortion.

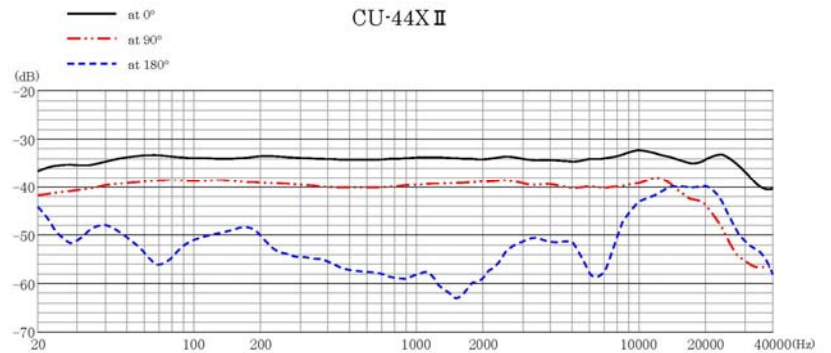
<Specifications>

Directivity	Cardioid
Transducer	DC biased condenser
Frequency range	20Hz - 30kHz
Sensitivity (nominal at 1kHz)	20.0mV/ Pa (-34dB, 0dB= 1V/Pa)
Equivalent noise level (A-weighted)	15dB-A
Max SPL (1% THD)	140dB SPL
Output impedance at 1kHz	150Ω
Powering	+48±4V phantom
Current consumption	less than 4mA
Weight	430g
Dimensions	156mm × 45.5mm (diameter)
Surface finish	matte black
Connector	XLR-3M

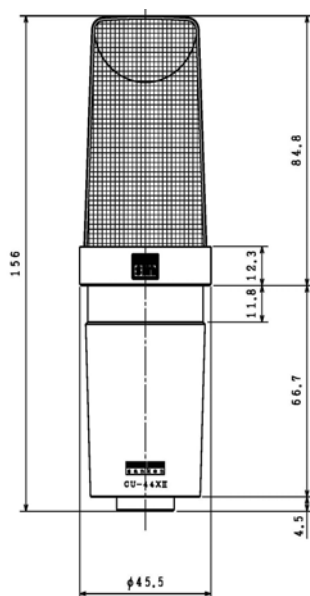
<Polar Pattern>



<Frequency Response>



<Dimensions>



<Included accessory>

**S-44X**  
Elastic suspension



<Optional accessories>

**S-44X Rubber String**  
Spare rubber string for S-44X (2 in one set)

**TC-44X Mk II**  
Flight case for two CU-44X MkII



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