

Transparent Sound, Ideal Cardioid Condenser Microphone



- 2 way capsule design
- Totally flat frequency response in 0°, 60°,90°and 135°

The Sanken CU-41 sets a new world standard for music recording. Used by engineers worldwide, it is a microphone which delivers a completely natural, uncolored sound. The special two-way transducer provides a totally flat frequency response.

Frequency response is totally flat not only on axis, but also at 90 degrees, and even at 135 degrees. This capacity is very important in keeping the sound transparent.

The CU-41 is also suitable as an announcer and narration booth microphone in TV and Radio facilities. Its distortion-free performance is renowned worldwide. This microphone offers a pure cardioid pattern with low proximity effect, and is 48V phantom-driven.

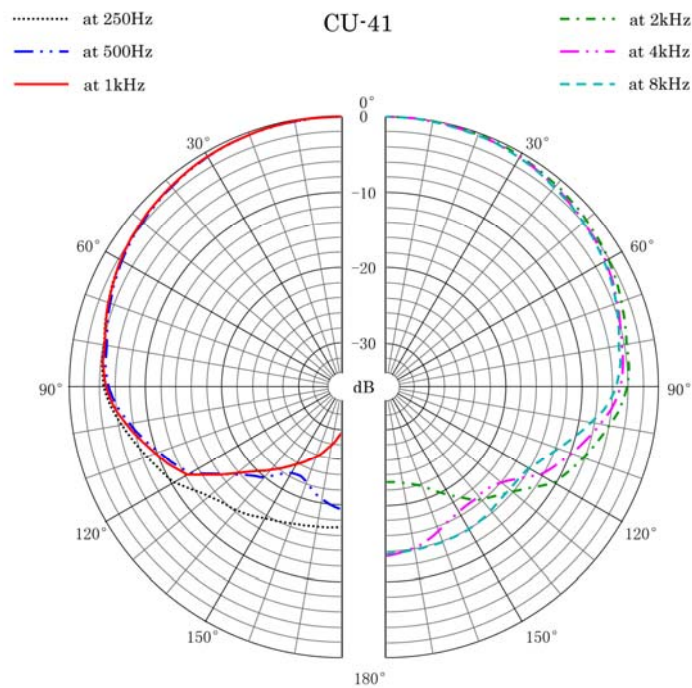
The secret of the CU-41's superior performance is its unique double condenser capsule design. The basic design dilemma inherent in the conventional single condenser capsule microphone has been that in order to make the microphone responsive over the full audio frequency range, its sensitivity has had to be compromised, resulting in a reduced signal-to-noise ratio. Unlike a conventional microphone, the CU-41 consists of two condenser capsules-one of small and one of large diameter vertically mounted beneath a protective grille. The small capsule picks up the upper range of audio frequencies and the large one picks up the lower range. The diameters of the two capsules are designed to provide an optimum balance between overall sensitivity and self-noise level.

In designing the CU-41 Sanken has paid close attention to practical considerations. The microphone is, for example, immune to the effects of humidity and temperature change, because its condenser diaphragms are made of titanium membranes (one micron thick). These titanium membranes are not only weather and temperature resistant, but also corrosion free, assuring a long life for the microphone.

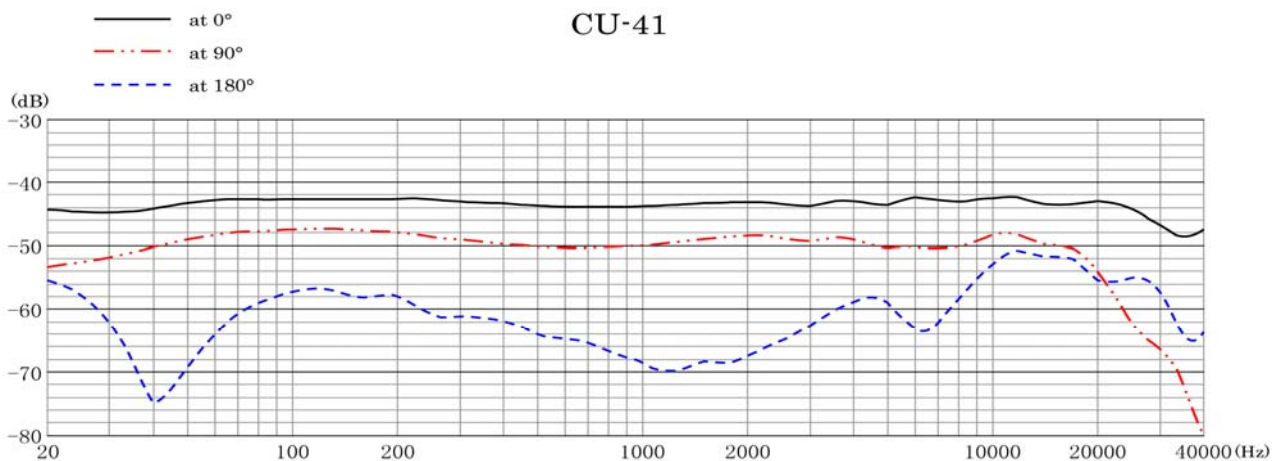
<Specifications>

Directivity	Cardioid
Transducer	DC biased condenser
Frequency range	20Hz - 30kHz
Sensitivity (nominal at 1kHz)	7mV/Pa (-43dB, 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 4.2mA
Weight	600g
Dimensions	180mm × 50mm (diameter)
Surface finish	satin nickel
Connector	XLR-3M

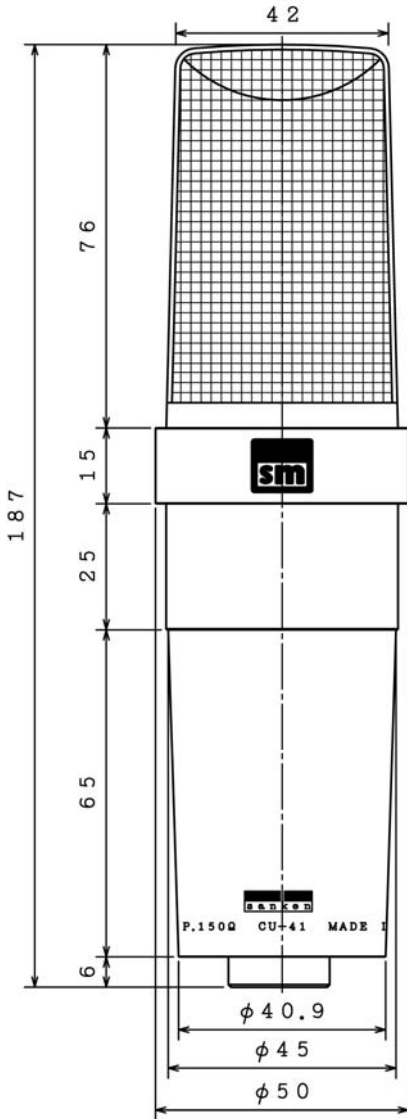
<Polar Pattern>



<Frequency Response>



<Dimensions>



<Included accessory>

S-41
Elastic suspension



CU-41 with S-41

<Optional accessories>

S-41 Rubber String
Spare rubber string for S-41
(2 in one set)



TC-41
Flight case for two CU-41



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