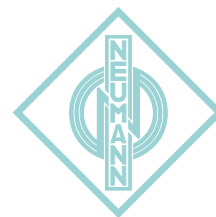


# Neumann|USA



## **KMS 105 Vocalist Microphone**

### Preliminary Specifications

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Designed with superlative vocal reproduction in mind, the KMS 105 brings Neumann quality to the demanding sound reinforcement environment. With its super-cardioid polar pattern, low self noise and colorless off-axis pickup, the KMS 105 complements in-ear monitor systems. By employing a unique triple acoustic filter, The KMS 105 minimizes popping and wind noise, and with special mechanical and electrical filters, handling noise is virtually eliminated. Because of the superior resolution and linear high frequency response, it is very easy for the artist using the KMS 105 to identify whether he or she is “on mic”.

### **Acoustical features**

When compared to other handheld vocal microphones, the KMS 105 offers a superior resolution of the voice, with extended frequency response and accurate transient detail. Sibilance problems common to other handheld condenser mics are eliminated. No foam is used in the basket, thus eliminating any “clouding” or “muffling” of the sound. Also, by using a studio grade DC-polarized condenser capsule, all the nuances of the voice come through with subtlety, power and focus.

The K55 capsule was developed from the famous K50, found in the KMS 150, KM 150 and KM 185 microphones. This new version features a super-cardioid pattern, achieved by specially modifying the response of the K50 pressure gradient transducer. The frequency response characteristic is developed in the acoustic realm, allowing for accurate representation of transient details found in music and speech, and thus transmitting a very “open” and detailed capture of the human voice.



# Neumann KMS 105 Vocalist Microphone

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## Acoustical Features - continued.

Due to the tight super-cardioid polar pattern and the distortion-free off axis response, a very high level of gain before feedback is achieved. This polar pattern offers the highest degree of isolation while still allowing for a generous “sweet spot” in front of the microphone.

## Electrical Features

The dynamic range of the KMS 105 is 127 dB, allowing reproduction of the artist’s full expression, without restraint. With a low self noise of 18 dB-A, a greater gain can be used without risk of adding noise to the mix. This way, the artist is able to use the microphone at a greater distance therefore maintaining a wide range of creative freedom during the performance.

Because of the superior resolution and linear high frequency response, it is very easy for the artist using in-ear monitors to identify whether or not he or she is “on mic” with the KMS 105. And by employing a transformerless output circuit, this microphone can incorporate long cable runs with no loss of signal quality or high-frequency response.

## Technical Specifications (preliminary)

Type	DC-polarized condenser
Directional pattern	Super-cardioid
Acoustic operating principal	Pressure gradient
Frequency range	20 - 20,000 Hz
Sensitivity	4 mV/Pa
Rated impedance	50 ohms
Self Noise	18 dB-A (DIN/IEC 651)
S/N ratio re. 1 Pa @ 1kHz	76 dB (A weighted)
Max SPL for 0.5% THD	145 dB SPL
Total dynamic range of amplifier	127 dB
Powering	48 volt phantom (IEC 1938)
Current consumption	3 mA
Dimensions	Diameter - 48 mm Length - 178 mm Weight - 300 g

**Artists using Neumann handheld microphones in performance:** Sarah McLachlan, Geddy Lee, Phish, Tori Amos, Richard Thompson, Paul Schaffer, Michael Crawford, Indigo Girls, Fastball, Diana Krall, Bob Dylan, and Tom Petty & the Heartbreakers, and Tony Bennett.