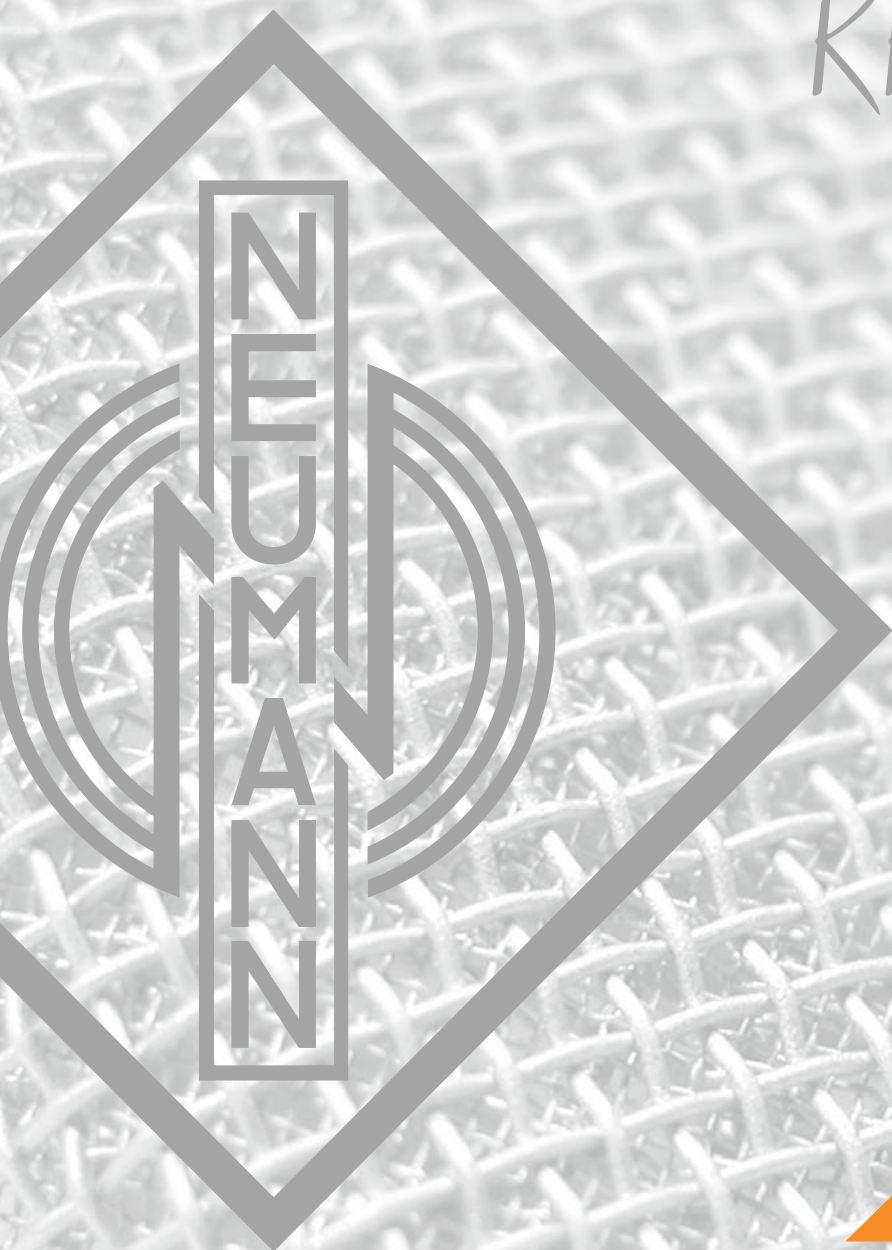


# KK 204/205 KK 104/105 S

- ▶ **Capsule Heads  
for Sennheiser  
SKM 2000 and  
SKM 5200/SKM 5000  
Wireless Systems**



[www.neumann.com](http://www.neumann.com)



**T**hanks to the combination of the KK 104 S and KK 105 S capsule heads with the Sennheiser SKM 5200/5000 wireless systems, and the KK 204 and KK 205 with the SKM 2000 system, Neumann sound is also available in the wireless domain.

This opens up new sound dimensions for the most demanding live-performance engineering.

Here the key areas of expertise of Neumann and Sennheiser are united in an unprecedented manner to create products with no compromises for professional use. Neumann capsules have already been used in combination with the Sennheiser SKM 5200 system for the past 10 years on some of the largest stages of the world and at mega-events such as the Eurovision Song Contest, where the highest demands are placed on the sound and transmission reliability.



**Features**

- Neumann capsule head engineering expands with Sennheiser liveperformance engineering
- Cardioid and Supercardioid characteristic
- Low susceptibility to handling noise
- Built-in, highly effective suppression of popping noises
- Easy dismantling for cleaning
- Pure, open, and neutral sound transmission

These systems reveal their strengths particularly in conjunction with Sennheiser in-ear monitoring.

The design of Neumann capsule heads for the Sennheiser handheld transmitters is based on the extremely successful, multiple award-winning wired stage microphones KMS 104, KMS 104 plus and KMS 105. From these microphones the capsule heads have acquired not only their outstanding sound characteristics and technical specifications, but also their robust construction and effective suppression of pop sounds and handling noise.

**Delivery Range KK 204/205**

for Sennheiser SKM 2000 Wireless Systems:

KK 204 (bk) Capsule head,  
Padded nylon bag

KK 205 (bk) Capsule head,  
Padded nylon bag

**Delivery Range KK 104/105 S**

for Sennheiser SKM 5200 and SKM 5000 Wireless Systems:

KK 104 S (bk) Capsule head,  
Padded nylon bag

KK 105 S (bk) Capsule head,  
Padded nylon bag

KK 105 HD (bk) Capsule head,  
Padded nylon bag

**Catalog No.**

KK 204 .....	ni .....	008651
KK 204 bk .....	blk .....	008652
KK 205 .....	ni .....	008653
KK 205 bk .....	blk .....	008654
KK 104 S .....	ni .....	008534
KK 104 S bk .....	blk .....	008533
KK 105 S .....	ni .....	008474
KK 105 S bk .....	blk .....	008476
KK 105 HD .....	ni .....	008559
KK 105 HD bk .....	blk .....	008560

**Selection of Accessories  
KK 104/105 S**

Windscreen, WSS 100 ..... blk ..... | 007352 |

Meaning of color codes:

blk = black,  
ni = nickel

The sound can be described as full, transparent and naturally warm, without excessive accentuation of the bass.

Due to the „single polar pattern design“, the polar patterns are very uniform over the entire frequency range, thus providing the basis for excellent resistance to feedback.

The capsules, and also of course the transmitter unit, are available in both nickel and black. Included with the capsule heads is a large nylon bag, which can hold not only the capsule but also the handheld transmitter, battery packs and additional accessories.

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## **KK 204 and KK 205**

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The KK 204 and KK 205 capsule heads were developed especially for the Sennheiser SKM 2000 system.

Particular importance has been placed on further damping of pop sounds and handling noise, an extremely low level of self-noise, and ease of servicing. Both capsule heads have integrated foam pop protection. The foam pores have a greatly increased surface area and can keep extreme moisture away from the capsule.

## **KK 204**

**Directional characteristic: Cardioid**

The capsule of the KMS 104 vocal microphone, exclusively for use with the Sennheiser SKM 2000 wireless system. The capsule head provides the best possible suppression of sound originating from 180° to the rear.

## **KK 205**

**Directional characteristic: Supercardioid**

The capsule of the KMS 105 vocal microphone, exclusively for use with the Sennheiser SKM 2000 wireless system. The capsule head has greater directivity and maximizes incident sound from the front as opposed to sound from the rear.

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## **KK 104 S, KK 105 S and KK 105 HD**

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The capsule heads KK 104 S, KK 105 S and KK 105 HD were developed especially for the Sennheiser systems SKM 5200/SKM 5000.

## **KK 104 S**

**Directional characteristic: Cardioid**

The capsule of the KMS 104 plus vocal microphone, exclusively for use with the Sennheiser SKM 5200/5000 wireless systems. It provides the best possible suppression of sound originating from 180° to the rear, and has highly effective integrated pop protection.







## KK 105 S / KK 105 HD

### Directional characteristic: Supercardioid

The capsule of the KMS 105 vocal microphone, exclusively for use with the Sennheiser SKM 5200/5000 wireless systems. The capsule head has greater directivity and maximizes incident sound from the front as opposed to sound from the rear. The KK 105 S has a multi-level acoustic filter made of wire gauze. The „heavy-duty“ variant, KK 105 HD, has integrated foam pop protection instead of the fine wire gauze screen of the KK 105 S, for even greater resistance to pop sounds. The foam pores also have a greatly increased surface area and can keep extreme moisture away from the capsule.

### Application Hints

- Vocals and speech on stage
- Especially suited for in-ear-monitoring
- Especially suitable with front-of-stage monitor systems
- For feedback-prone environment

These are just some of the most common applications. We recommend additional experimentation to gain maximum use from this microphone.

### Technical Data KK 204/205

Directional pattern ..... Cardioid/Supercardioid  
 Frequency range ..... 40 Hz...20 kHz  
 Sensitivity at 1 kHz into 1 kohms ..... 2.8 mV/Pa  $\pm$  1 dB  
 Equivalent noise level, CCIR<sup>1)</sup> ..... 35 dB  
 Equivalent noise level, A-weighted<sup>1)</sup> ..... 24 dB-A  
 Max. SPL for 0.5% THD<sup>2)</sup> ..... 150 dB  
 Dynamic range (A-weighted) ..... >126 dB-A

Weight (incl. transmitter + power supply unit) ..... approx. 500 g  
 Dimensions (+ SKM 2000) ..... length: 272 mm,  $\varnothing$  55 mm

Technical data for SKM 2000 can be found at:  
[www.sennheiser.com](http://www.sennheiser.com)

### Technical Data KK 104 S / KK 105 S (HD) (incl. SKM 5200/SKM 5000)

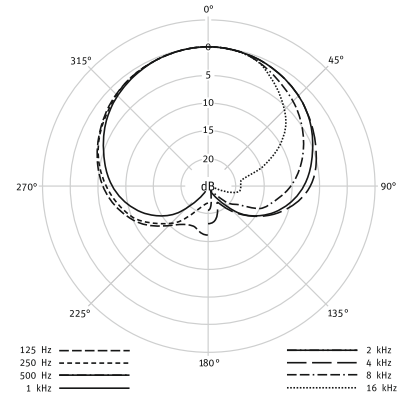
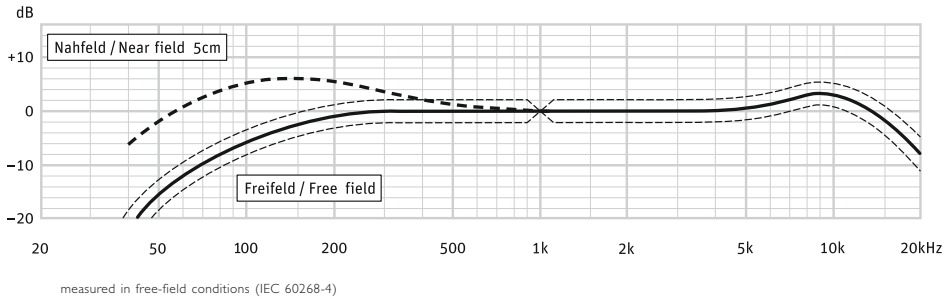
Directional pattern ..... Cardioid/Supercardioid  
 Frequency range ..... 80 Hz...20 kHz  
 Sensitivity at 1 kHz into 1 kohms ..... 1.7/1.3 mV/Pa  $\pm$  1 dB  
 Equivalent noise level, CCIR<sup>1)</sup> ..... 42/44 dB  
 Equivalent noise level, A-weighted<sup>1)</sup> ..... 31/33 dB-A  
 Max. SPL for 0.5% THD<sup>2)</sup> ..... 148/ 150 dB  
 Max. SPL for 3% THD<sup>2)</sup> ..... 153/ 155 dB  
 Dynamic range (A-weighted) ..... >117 dB-A

Frequency range ..... 450–960 MHz  
 Switching bandwidth ..... 24 MHz  
 Transmitter frequencies ..... 16  
 RF-output ..... 50 mW (–3 dB)  
 Noise suppression system ..... Sennheiser "HiDyn<sup>plus</sup>"<sup>TM</sup>  
 Weight (incl. transmitter + power supply unit) ..... approx. 325 g  
 Dimensions (+ transmitter) ..... length: 257 mm,  $\varnothing$  48 mm

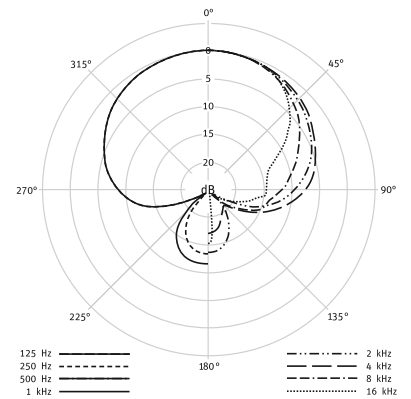
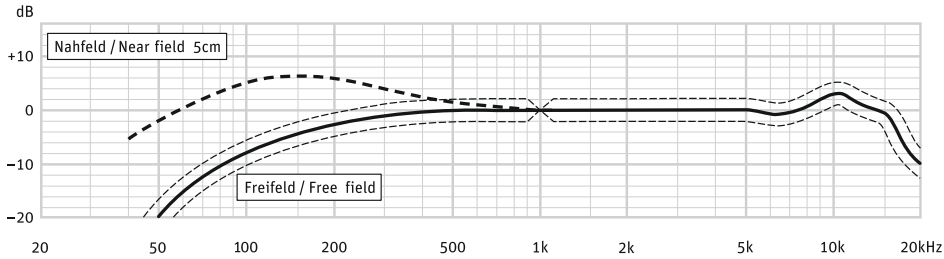
<sup>1)</sup> according to IEC 60268-1; CCIR-weighting according to CCIR 468-3, quasi peak; A-weighting according to IEC 61672-1, RMS <sup>2)</sup> measured as equivalent el. input signal

# KK 204/205 + KK 104/105 S

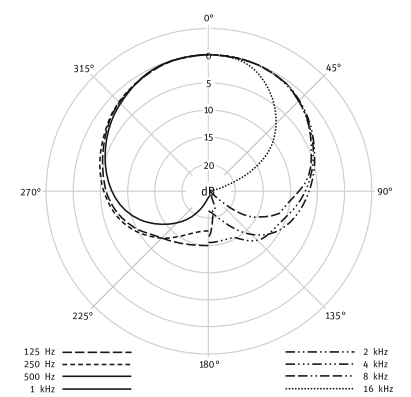
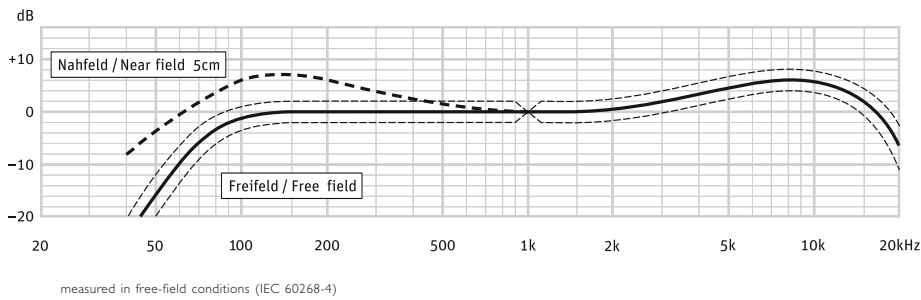
## KK 204 + SKM 2000



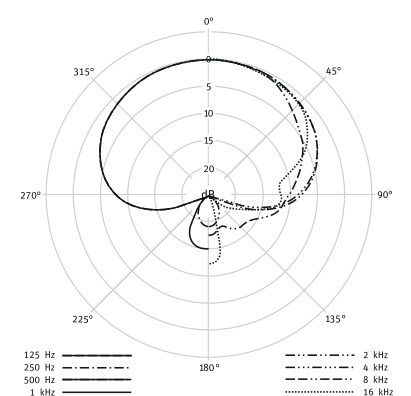
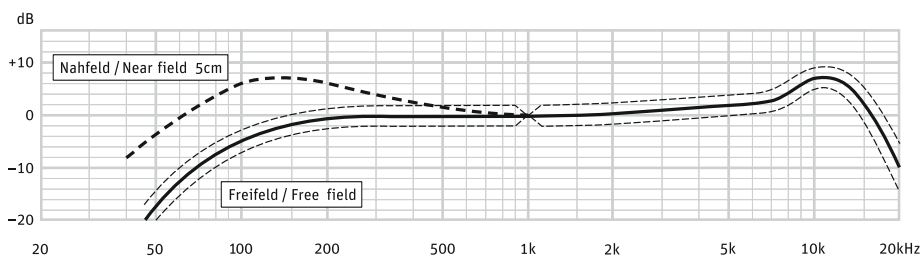
## KK 205 + SKM 2000



## KK 104 S + SKM 5200/SKM 5000



## KK 105 S / KK 105 (HD) + SKM 5200/SKM 5000





The capsules and the transmitter unit are available in both nickel and black.

Included with the capsule heads is a large nylon bag, which can hold not only the capsule but also the handheld transmitter, battery packs and additional accessories.

