

Neumann Introduces KK 204 & KK 205 Microphone Capsules

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Premium audio brand Neumann announced that it will be showcasing its new KK 204 and KK 205 microphone capsules at the **Sennheiser** booth [C2632] during NAB 2012. The new capsules, which are available in cardioid (KK 204) and supercardioid (KK 205) patterns, are compatible with Sennheiser's 2000 series of wireless handheld transmitters.

The acoustic features of the KK 204 and KK 205 capsule heads are derived from the multiple award-winning wired Neumann stage microphones, the KMS 104 and KMS 105. The KK 204, with its cardioid pattern, ensures the best possible suppression of sound originating from 180 degrees to the rear, while the supercardioid KK 205 has greater directivity, and maximizes incident sound from the front as compared to sound from the rear. Due to the "single polar pattern design," the polar patterns are very uniform over the entire frequency range and provide excellent resistance to feedback.

Wolfgang Fraissinet, President of Neumann, commented: "Neumann capsules have already been used in combination with the Sennheiser SKM 5200 handheld transmitter for the past 10 years on some of the largest stages of the world, where the highest demands are placed on a high-resolution sound and transmission reliability. With the development of the KK 204 and KK 205 capsule heads, the Neumann sound is now also available for the Sennheiser 2000 Series. The synergies between the key areas of expertise of Sennheiser handheld transmitters and Neumann capsule sound permit us to offer our customers a wireless system of absolutely uncompromisingly quality, even for the most demanding live applications."

In developing the new capsules, particular importance was placed on the effective damping of pop sounds and handling noise, as well as on the extremely low level of self-noise. The KK 204 and KK 205 capsule heads also have an extremely wide dynamic range and were designed to be very easy to service.

The aesthetic design complements the construction of the SKM 2000 handheld transmitter, and each capsule — like the SKM 2000 transmitter — is available in both nickel and black finishes. Each capsule includes a large nylon bag designed to hold the capsules, the handheld transmitter, battery packs and additional accessories.

Both the KK 204 and KK 205 feature:

- **Reduced handling noise:** Very low sensitivity to handling noise with a steep roll-off from approximately 78 Hz
- **Reduced plosives and sibilance:** Both capsules feature a foam-lined grille to ensure smooth sound
- **Wide dynamic range with high SPL capability:** 126 dB-A of dynamic range with 150 dB MAX SPL
- **Low feedback:** Incredibly smooth and flat frequency response provided high gain before feedback
- **Easy to service components:** Neumann understands the rigors of the road and has made the KK 204 and KK 205 exceptionally robust but easy to service if necessary

Specifications:

Directional pattern: Cardioid (KK 204) / Super-cardioid (KK 205)

Frequency range: 40 Hz – 20 kHz

Sensitivity (at 1 kHz into 1 k Ω): 2.8 mV/Pa \pm 1 dB

Equivalent noise level, CCIR1): 35 dB

Equivalent noise level, A-weighted¹⁾: 24 dB-A Max. SPL for 0.5% THD²⁾ 150 dB

Dynamic range (A-weighted): > 126 dB-A

Weight (including transmitter and power supply unit): Approx. 17.6 oz.

Dimensions (including SKM 2000)/length: 10.7 in., \varnothing 2.2 in.

¹⁾ according to IEC 60268-1; CCIR-weighting according to CCIR 468-3, quasi peak; A-weighting according to IEC 61672-1, RMS

²⁾ measured as equivalent el. input signal