

KEM 975

Cardioid Plane Microphone with Delta-Capsule

Linearray microphone system **Satellite**



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The Cardioid Plane Microphone **KEM 975** is a new design of the patented instantaneous line array microphone principle, which is already in use in the KEM 970. A completely new circuit design has been developed; besides the well-proven ceramic capsules of the M 300 series, Microtech Gefell have developed a low-noise preamplifier system for the KEM 975. Also, the construction of the housing has been completely revised without changing any of the critical dimensions of the Line Array itself; as the capsule positioning and relationship is an integral part of the design. The result of the revision is a shortened overall body length.

Compared to the KEM 970, the KEM 975 Cardioid Plane Microphone has an increased dynamic range. There are 5 switch settings covering the entire Line level. Microtech Gefell's well-proven optical principle to generate the capsule polarisation voltage is also used in the KEM 975 – this eliminates any “nasties” on the power line getting into the audio circuit.

Delta-Capsule

IRT München (Institut für Rundfunktechnik), who originally designed and patented the line-array microphone and licensed Microtech Gefell to manufacture it, have significantly enhanced the directivity at low frequencies by the addition of a patented assembly that adds an extra microphone capsule mounted at the rear. This additional capsule assembly is available as an optional accessory.

The advantage of this new construction, coupled with the improvements in lowering the noise floor, mean that the new KEM 975 is also suitable for music recordings as well as sound reinforcement, broadcast and video conferencing applications.

By using an optimised filter system, the sound of the rear capsule is summed with the sound of the Microphone Line Array. The output of the complete arrangement is provided at the 3-pin XLR output connector of the N 975 power supply. Signal integration is automatically enabled (“plug and play principle”) when the **Delta-Capsule** system is connected to the KEM 975 microphone.

Power supply

The N 975 power supply is connected to the microphone by a 5-pin XLR cable. The new power supply is available either as a half width 19” – 1U rack unit or, alternatively, as table-top variant.

Delivery

A matching system of accessories – table stands, stand mounts, wall mounts (vertical and horizontal arrangements), windshields, etc. will compliment this new microphone.