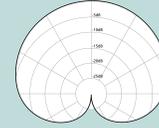


QM 69



The QM 69

Quadro condenser microphone

The QM 69 quadro microphone is a four-channel microphone for quadrophonic recording. It consists of two pairs of condenser microphone capsules mounted one above the other. The capsules have a cardioid polar pattern and each capsule has its own amplifier system. The upper pair of capsules can be rotated against the lower pair of capsules in both directions. This gives a directional pattern with four cardioids along the main directions of sound incidence.

This arrangement delivers a four-channel primary signal without delay time (phase) differences for quad recordings. Unlike recordings made by means of four separate microphones, this arrangement retains the original spatial sensation even when fill-in microphones are added.

Color spots in front of the four membranes on the grille of the capsule cage indicate the principal directions of sound incidence and are coded as mentioned below.

Microphone pair I is the stationary lower double capsule. Its membranes are coded yellow for front left and blue for back right ("right" and "left" as seen when facing the sound source).

Microphone pair II is the upper capsule that can be rotated. Its membranes are colored red for front right, green for back left.

Looking down on either the standing or suspended microphone, system II is to be rotated clockwise by 90 degrees.

The QM 69 is equipped with a 12-pole special connector.



QM 69 Specifications

Acoustical operating principle	Pressure gradient transducer
Polar pattern	4x cardioid
Frequency range	40...18,000 Hz
Sensitivity	11 mV/Pa ± 1 dB
Source impedance	180 ohms
Maximum load impedance	1000 ohms
S/N ratio according to DIN 45 590 (ref. level 1 Pa)	74 dB
Equivalent noise (weighted noise level according to DIN 45 590)	20 dB
A-weighted equivalent loudness level due to inherent noise (IEC 179)	13 dB
Max. SPL for 0.5% THD at 1 kHz	135 dB
Power supply (P 48, DIN 45 590)	48 V ± 4 V Phantom-powering
Current consumption	2 mA
Required cable connector	T 3615/QC 1 or T 1635/QC 2
Weight	510 g
Dimensions	30/40 mm in diam. 285 mm long