MICROPHONES

NEUMANN U87 VARIABLE CONDENSER MICROPHONE



The U 87 is probably the best known and most widely used Neumann studio microphone. It is equipped with a large dual-diaphragm capsule with three directional patterns: omnidirectional, cardioid and figure-8. These are selectable with a switch below the headgrille. A 10 dB attenuation switch is located on the rear. It enables the microphone to handle sound pressure levels up to 127 dB without distortion. Furthermore, the low frequency response can be reduced to compensate for proximity effect.

Applications

The U 87 Ai condenser microphone is a large diaphragm microphone with three polar patterns and a unique frequency and transient response characteristic. Users recognize the microphone immediately by its distinctive design. It is a good choice for most general purpose applications in studios, for broadcasting, film and television. The U 87 Ai is used as a main microphone for orchestra recordings, as a spot mic for single instruments, and extensively as a vocal microphone for

all types of music and speech.

Acoustic features

The U 87 Ai is addressed from the front, marked with the Neumann logo. The frequency response of the cardioid and figure-8 directional characteristics are very flat for frontal sound incidence, even in the upper frequency range. The microphone can be used very close to a sound source without the sound becoming unnaturally harsh. By means of a high-pass filter interferences through subsonic and low frequencies are reduced remarkably.

Features:
• Variable large diaphragm microphone
• Pressure-gradient transducer with double membrane capsule
• The studio microphone classic
• Three directional characteristics: omni, cardioid, figure-8
• Switchable low frequency roll-off
• Switchable 10 dB pre-attenuation
• Ideal as main and as support microphone in the most differing recording situations

Applications:
• Theatre
• Rock n Roll
• Live Event
• Houses of Worship

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