This studio microphone presents improved acoustical and electrical characteristics and better high end response when compared to the U 87 A. It has a dynamic range of 123dB, five polar patterns, a 6dB pad, and a 2 position LF roll-off switch. The U 89 has little or no off-axis coloration.

Famous for broadcast use, the U 89 is recommended as a general orchestral microphone and for narration and vocals. All high impedance components are protected against contamination, making it highly reliable and stable over long periods of operation.
Directional pattern | Omni, wide-angle cardioid, cardioid, hypercardioid, figure 8
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Acoustic operating principle | Pressure-gradient-transducer
Frequency range | Hz  20 - 20,000
Sensitivity | mV/Pa  8
Rated impedance | ohms  150
Equivalent loudness level due to inherent noise | DIN 45 405 CCIR 468-3  dB  28
DIN/IEC 651 | dB-A  17
S/N ratio re 1 Pa at 1 kHz | DIN/IEC 651 A-weighted dB  66
CCIR | dB-A  77
Max. SPL for less than 0.5% THD | dB  134
without preattenuation | dB  140
with preattenuation | Total dynamic range of the microphone amplifier | dB  123
Power Consumption | mA  0.8
Weight | g  400
Dimensions | diameter | mm  46
length | mm  185
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1) 1 Pa = 94 dB SPL, at 1 kHz into 1 k ohm load impedance
2) THD of the microphone amplifier when an input level equivalent to the capsule output at the specified SPL is applied
3) THD of the microphone amplifier when an input level equivalent to the capsule output at the specified SPL is applied
4) Referred to DIN/IEC 651 A-weighted equivalent loudness level
5) All microphones are 48 V ±4 V phantom powered (P 48 according to DIN 45596/IEC 815)