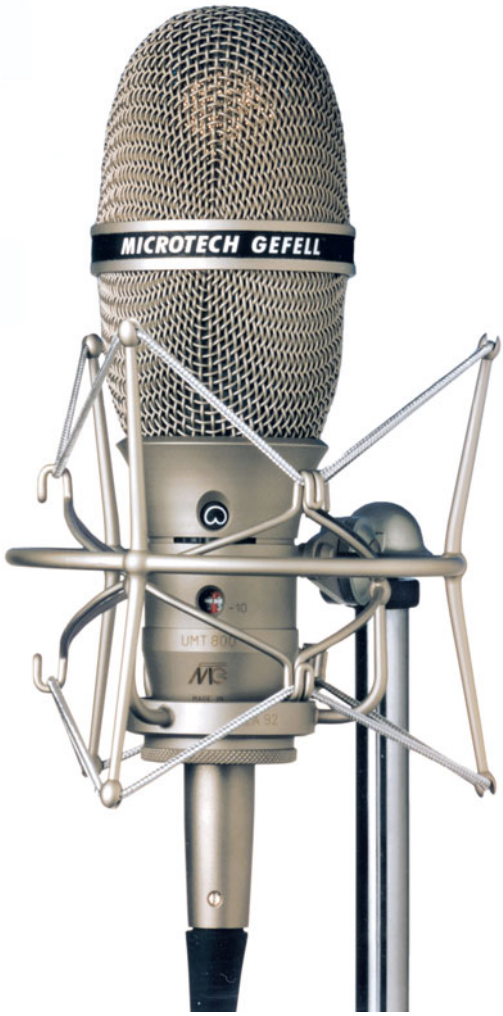
UMT 800

Transformerless Studio Condenser Microphone with switchable polar patterns



The UMT 800 is a large format studio microphone featuring a pickup capsule with a long history of reliable performance. Five polar patterns make this microphone an ideal choice for a wide range of professional and semi-professional recording situations.
The UMT 800 produces a clean colorless sound ideally suited for accurate recording of instrumental and vocal soloists in music studios, motion picture scoring stages, and television broadcast studios. Two distinguishing characteristics of this microphone are its high sensitivity and the outstanding signal-to-noise ratio.
The pickup capsule is a pressure gradient transducer using dual diaphragms and a single brass back plate. The large diameter plastic diaphragms are gold-sputtered. Varying the polarization voltage of the diaphragms with the pattern switch located just below the head grille, produces five patterns: omni, wide cardioid, cardioid, hypercardioid and figure 8.
The direction of maximum sensitivity is perpendicular to the microphone‘s axis (side addressed).
The microphone preamplifier is a transformerless design with a symmetrical output stage. This design yields a wide dynamic range and a low self noise floor. The sensitivity can be reduced by a 10 dB switch located on the body of the microphone when recording very loud sound sources. A low frequency roll-off switch also located on the body of the microphone, reduces the proximity effect for close-range applications.
The microphone is equipped with a standard 3-pin XLR connector fitting to a microphone cable, e.g. C 70. The operation voltage for the UMT 800 is provided by 48 V phantom powering according to the international standards DIN 45596 and IEC 268-15.
It is available in a satin nickel or a dark bronze finish.

Delivery

Microphone UMT 800 in a wooden case	L x B x H 262 x 107 x 84 mm	
satin nickel		Order-No. 211143
dark bronze		Order-No. 211144

Accessories, optional

Windscreen, anthracite	W 80	Order-No. 202406
Popscreen, black	PO 70	Order-No. 600018
Microphone holder, turnable, satin nickel	MH 80	Order-No. 202320
Microphone holder, turnable, dark bronze	MH 80	Order-No. 202322
Elastic suspension, satin nickel	EA 92	Order-No. 202312
Elastic suspension, dark bronze	EA 92	Order-No. 202313
Power supply	N 200	Order-No. 202101
Connection cable	C 70	Order-No. 202212

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Specifications UMT 800

CE Certificate

Polar patterns		omni, wide cardioid, cardioid, hypercardioid, fig-8
Acoustical operating principle		Pressure gradient transducer
Frequency range		40 ... 18000 Hz
Switch position ”reduced bass roll-off” at 90 Hz		-10 dB
Sensitivity		8/cardioid 13 mV/Pa
Rated impedance		150 Ω
Equivalent loudness level due to inherent noise	CCIR 468-4 (qps) DIN EN 60 651	26 dB 14 dB - A
Equivalent loudness level due to inherent noise	CCIR-weighted A-weighted	68 dB 80 dB
Max. SPL for THD ≤ 0,5 % with 10 dB preattenuation		139/135 dB 149/145 dB
Total dynamic range of the microphone preamplifier		121 dB
Current consumption (P 48, DIN 45596, IEC 268-15)		3 mA
Output connector		3-pin XLR connector, goldplated contacts
Weight		540 g
Dimensions (L x ∅)		195 mm x 70 mm
Finish		satin nickel, dark bronze