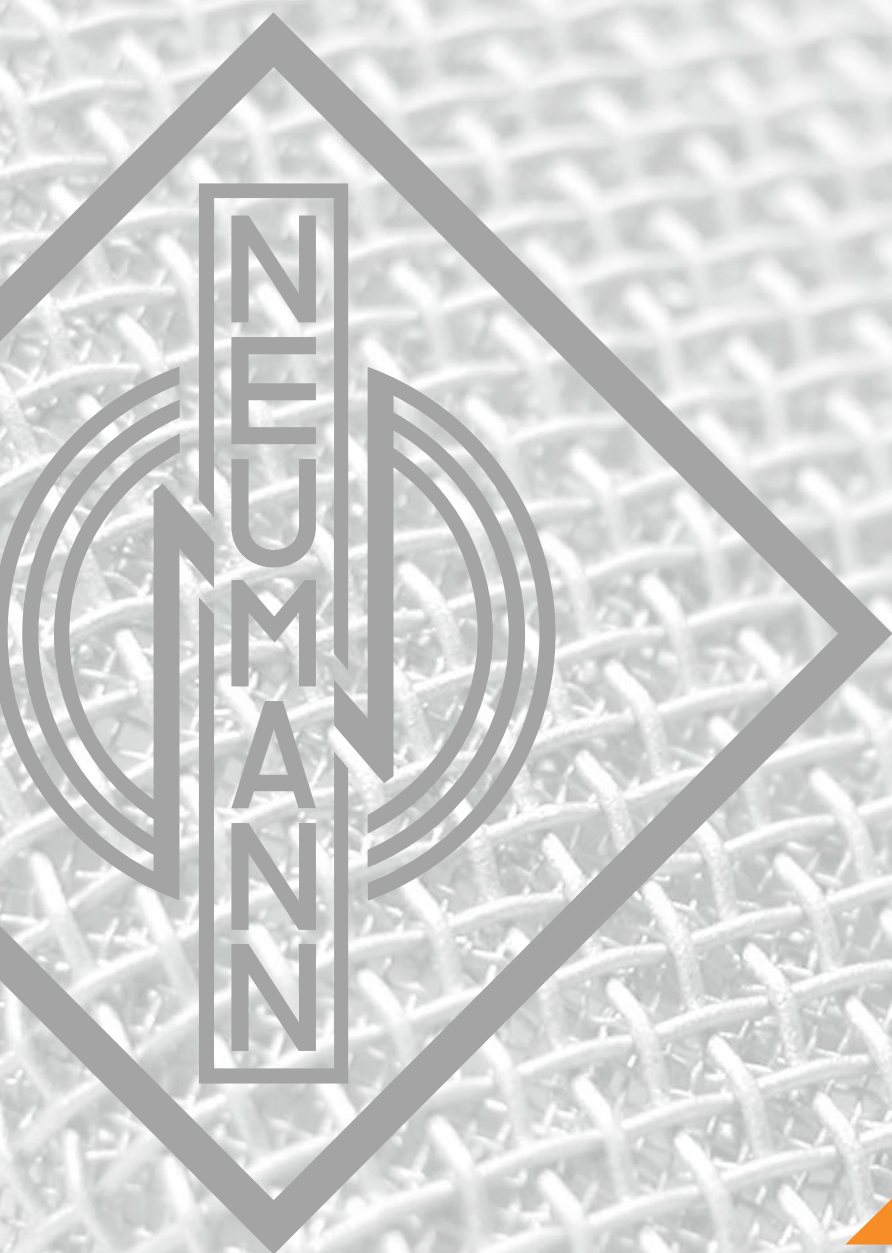


M 150 Tube

▶ **Tube Microphone**



www.neumann.com



The design of the microphone is a registered design of the Georg Neumann GmbH in certain countries.

Since the 1950s, the Neumann M 50 has been heralded as the ideal microphone for orchestral recording and string scoring. With its phenomenal transient response and unique directional characteristic, this classic mic has endeared many fans, both in the control room and on the soundstage.

The new M 150 Tube takes many of the features from the original M 50 and incorporates them in a very modern microphone. With low self noise, a Titanium membrane and capsule, transformerless tube amplifier and sophisticated power supply, the M 150 Tube is not a reissue but an entirely new microphone in its own right.

Acoustical features

The Titanium diaphragm of the pressure capsule is 12 mm in diameter and is exceedingly thin. Although Titanium has been known to have unique and desirable characteristics for some time, it has, until very recently, been very difficult to procure in the quality necessary for use in a microphone of this type.

The headgrille is shaped just like that on the original M 50, as requested by various top engineers in the recording industry. Due to mounting the pressure capsule with the diaphragm flush to the surface of a small (40 mm) sphere, the directional characteristic of the M 150 Tube is entirely unique.

At the lowest frequencies, this system is a pure omnipressure transducer with a perfectly circular polar pattern. However, in the mid- and upper frequencies, the pickup pattern becomes more narrow.

The M 150 Tube is an ideal microphone for any stereo, 5.1 or 7.1 surround recording, particularly DECCA Tree technique.

Features

- All Titanium capsule
- Unparalleled transient accuracy
- Pressure omni capsule for extended low frequency response
- Modern version of the world-famous M 50
- Very low self noise of 15 dB-A
- Transformerless tube amplifier based on the award-winning M 149 Tube microphone
- Ideal for DECCA tree recording and surround miking techniques
- Stereo sets with consecutive serial numbers

Electrical features

The dynamic range of the M 150 Tube is 119 dB, allowing reproduction of the full musical expression, without restraint.

With a low self noise of 15 dB-A, more gain can be used without risk of adding noise to the final product. The transformerless output circuit of this microphone allows for extremely fine reproduction of small signals and low frequency information. Also, long cable runs can be used with no loss of signal quality.



Application Hints

- Its special acoustic properties make this an ideal mic for most classical recordings
- A superb AB stereo pair for perfect balance of direct and reverberant sound
- Decca tree, setup with three microphones
- A highest quality spot (solo) mic

These are just some of the most common applications. We recommend additional experimentation to gain maximum use from this microphone.

Delivery Range

M 150 Tube: M 150 Tube Microphone, N 149 A Power supply, EA 170 Elastic suspension, KT 8 Connecting cable, Aluminium case

M 150 Tube Stereo-Set: 2x M 150 Tube Microphone, 2x N 149 A Power supply, 2x EA 170 Elastic suspension, 2x KT 8 Connecting cable, Aluminium case

Catalog No.

M 150 Tube (230 V, EU)	ni	008456
M 150 Tube (230 V, UK)	ni	008458
M 150 Tube (117 V, US)	ni	008457
M 150 Tube Stereo set (230 V, EU)	ni	008462
M 150 Tube Stereo set (230 V, UK)	ni	008464
M 150 Tube Stereo set (117 V, US)	ni	008463

Selection of Accessories

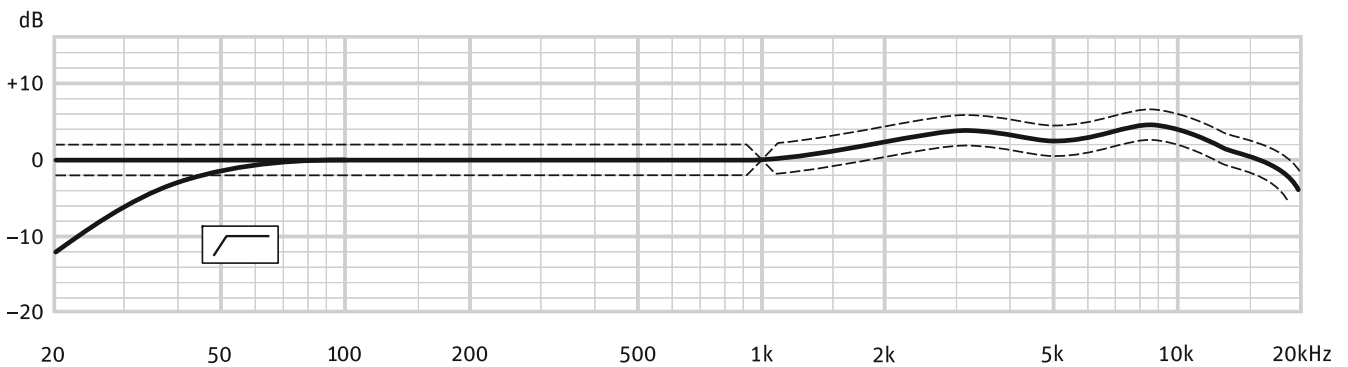
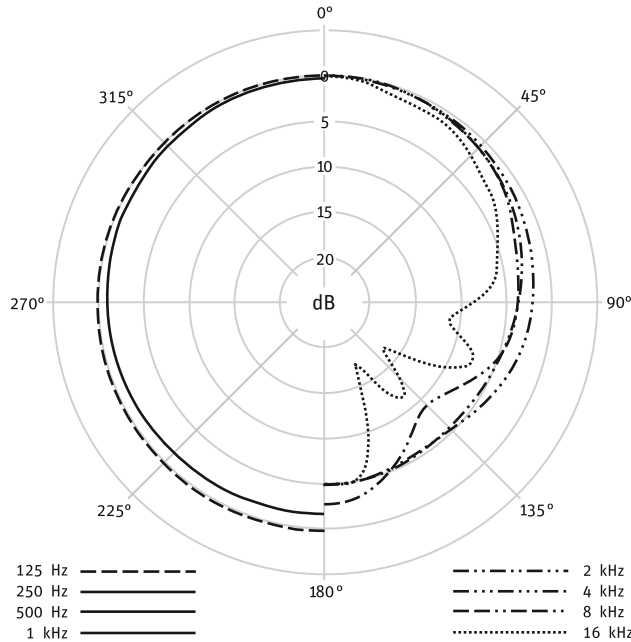
Power supply, N 149 A (EU)	blk	008447
Power supply, N 149 A (US)	blk	008446
Power supply, N 149 A (UK)	blk	008448
Elastic suspension, EA 170	ni	007271
Auditorium hanger, MNV 87	ni	006804
Floor stand, MF 4	blk	007337
Stand extension, STV 60	blk	006189
Popscreen, PS 15	blk	008472
Popscreen, PS 20 a	blk	008488
Microphone cable, IC 3 mt	blk	006543

A complete survey and detailed descriptions of all accessories are contained in the accessories catalog

Meaning of color codes:

blk = black
ni = nickel





Technical Data

Acoustical operating principle Pressure transducer
 Directional pattern omnidirectional
 Frequency range 20 Hz...20 kHz
 Sensitivity at 1 kHz into 1 kohm 20 mV/Pa
 Rated impedance 50 ohms
 Rated load impedance 1 kohms
 Signal-to-noise ratio, CCIR¹⁾ (rel. 94 dB SPL) 66 dB
 Signal-to-noise ratio, A-weighted¹⁾ (rel. 94 dB SPL) 79 dB
 Equivalent noise level, CCIR¹⁾ 28 dB
 Equivalent noise level, A-weighted¹⁾ 15 dB-A

Typical SPL (tube characteristic)²⁾:
 for < 0.5% THD (for < 5% THD) 114 (134) dB
 Maximum output voltage 8 dBu
 Dynamic range of the microphone amplifier:
 (A-weighted) for < 0.5% THD (for < 5% THD) 99 (119) dB
 Powering Power supply N 149 A
 Matching connector microphone DIN 8F
 Matching connector power supply XLR3F
 Weight 800 g
 Diameter/Length 78/165 mm

¹⁾ according to IEC 60268-1; CCIR-weighting according to CCIR 468-3, quasi peak; A-weighting according to IEC 61672-1, RMS ²⁾ measured as equivalent el. input signal