



# M 150 Tube

Special Edition

### Delivery Range

- M 150 Tube microphone
- N 149 A Power supply
- EA 170 Elastic suspension
- KT 8 Connecting cable, aluminium case

### Catalog No.

- M 150 Tube (230 Volt, EU) ..... ni ..... 08456
- M 150 Tube (230 Volt, UK) ..... ni ..... 08458
- M 150 Tube Stereo (230 Volt, EU) ..... ni ..... 08462
- M 150 Tube Stereo (230 Volt, UK) ..... ni ..... 08464

### Selection of Accessories

- Swivel mount, SG 1 ..... blk ..... 08445
- Auditorium hanger, MNV 87 ..... ni ..... 06804
- Auditorium hanger, MNV 87 mt ..... blk ..... 06806
- Popscreen, PS 10 ..... blk ..... 07345
- Popscreen, PS 20 ..... blk ..... 07346
- Connecting cable, IC 3 mt ..... blk ..... 06543

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

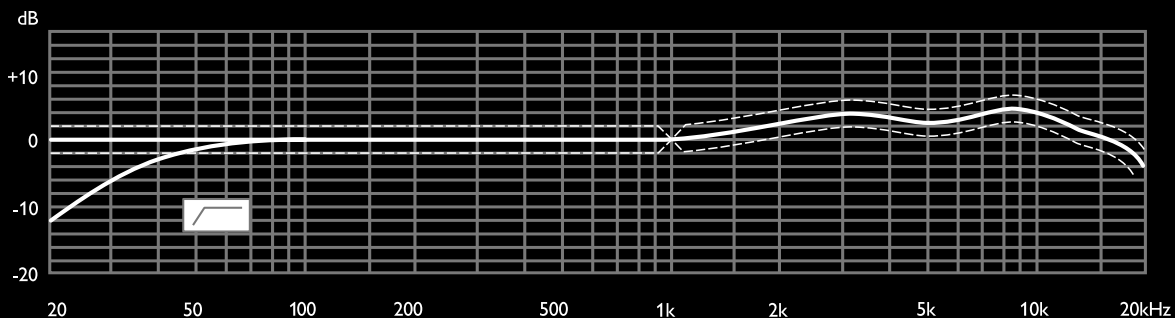
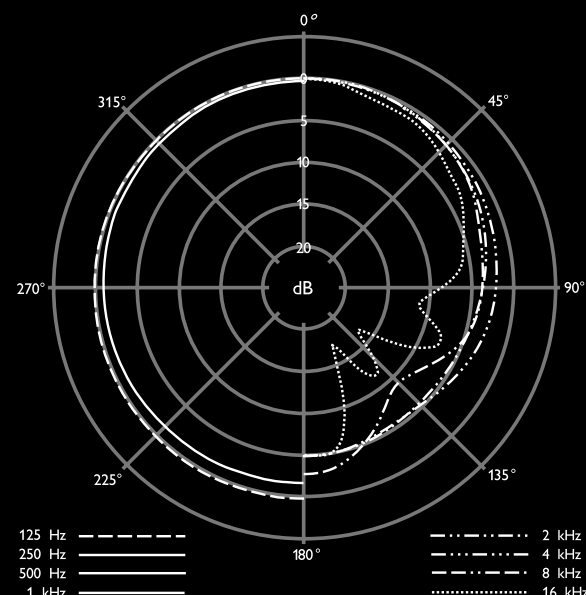
Color codes: blk = black, ni = nickel



### Technical Data

- Acoustic operating principle ..... pressure transducer
- Polar 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 ..... 1000 ohms
- Equivalent CCIR 468-3 ..... 28 dB
- Equivalent DIN/IEC 651 ..... 15 dB-A
- S/N ratio CCIR 468-3 ..... 66 dB
- S/N ratio DIN/IEC 651 ..... 79 dB
- Max. SPL (tube characteristic): for < 0.5% THD (< 5% THD) ..... 114 (134) dB
- Dynamic range (of the amplifier): for < 0.5% THD\* (< 5% THD) ..... 99 (119) dB
- Max output voltage ..... 8 dBu
- Weight ..... 800 g
- Diameter / Length ..... 78 / 165 mm

\*THD of the microphone amplifier at an input voltage which is equivalent to the capsule output voltage at the specified SPL.



Errors excepted, subject to change • Printed in Germany • Publ. 03/01 • EN EU/UK



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Special Edition







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

**Description**

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.

**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.

