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TLM 102

Studio

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Smart. Sweet. Powerful.



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The TLM 102 defines a new generation of Neumann studio microphones. This applies not only to the design of the microphone but also to the price.

The reduced overall size contributes to an exceptionally compact appearance, which unites all of the typical design components of a Neumann microphone. The harmonious proportions and gleaming grille ring ensure that even at first glance, the TLM 102 attracts attention.

The TLM 102 is impressive in terms of sound: In the interior is a newly developed large-diaphragm capsule (cardioid) with a maximum sound pressure level of 144 dB, which permits the recording of percussion, drums, amps and other very loud sound sources, for example. Instruments that are not especially loud also benefit from the very fast transient response of the TLM 102. However its most important applications are in the realm of vocals and speech; a slight boost above 6 kHz provides for excellent presence of the voice in the overall mix. Up to 6 kHz the frequency response is extremely linear, ensuring minimal coloration and a clearly defined bass range. The capsule is elastically mounted for the suppression of structure-borne noise. A pop screen integrated into the grille serves to suppress plosives in vocal and speech recording.

Due to its price and flexible field of application, the TLM 102 is ideal for the home recording and project studio sector, as well as for the broadcasting area, especially when clear lines of sight to the speakers are a priority.

The TLM 102 is available in black and nickel, a stand mount is included.

► Features

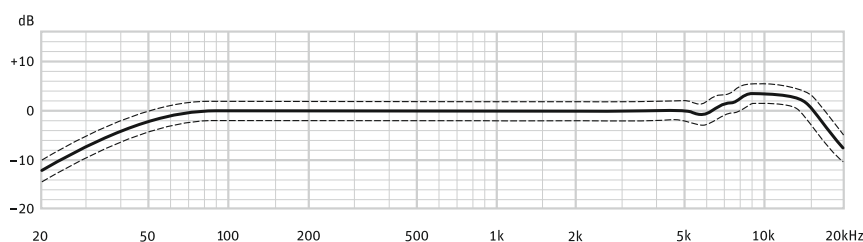
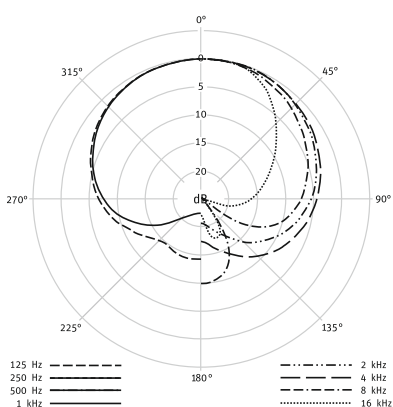
- Large-diaphragm microphone with cardioid directional characteristic (pressure gradient transducer)
- Compact, characteristic but smaller-scale Neumann design
- Very high maximum sound pressure level
- Slight presence boost above 6 kHz
- Transformerless circuitry

► Application Hints

- Vocals and speech
- In particular, pickup of especially loud instruments: Drums, percussion, wind instruments and amps
- Home recording, project and broadcasting studios

► Order Information

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Technical Data

Acoustical operating	Pressure gradient transducer	Maximum SPL for THD 0.5% ²⁾	144 dB
Directional pattern	Cardioid	Maximum output voltage	13 dBu
Frequency range	20 Hz...20 kHz	Dyn. range of the mic. amplifier (A-weighted)	132 dB
Sensitivity at 1 kHz into 1 kohm	11 mV/Pa	Supply voltage (P48, IEC 1938)	48 V ± 4 V
Rated impedance	50 ohms	Current consumption (P48, IEC 1938)	3.5 mA
Rated load impedance	1 kohms	Matching connector	XLR3F
Equivalent noise level, CCIR ¹⁾	21 dB	Weight approx.	approx. 260 g
Equivalent noise level, A-weighted ¹⁾	12 dB-A	Diameter	52 mm
Signal-to-noise ratio, CCIR ¹⁾ (rel. 94 dB SPL)	73 dB	Length	116 mm
Signal-to-noise ratio, A-weighted ¹⁾ (rel. 94 dB SPL)	82 dB		

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