Product Information



Georg Neumann GmbH | Berlin



he TLM 103 is the ideal large diaphragm microphone for all professional and semi-professional applications requiring the utmost in sound quality on a limited budget.

By utilizing the tried and true transformerless circuit found in numerous Neumann microphones, the TLM 103 features yet unattained low self-noise and the highest sound pressure level transmission. The capsule, derived from that used in the U 87, has a cardioid pattern, is acoustically well-balanced and provides extraordinary attenuation of signals from the rear.

The TLM 103 is available in satin nickel and matte black. Delivery includes an SG 1 metal swivel mount and a wooden jeweler's box.

Applications

Due to the universal cardioid pattern, straightforward handling, extremely low self-noise level, and finally, the price, the TLM 103 is predestined for all demanding applications from home recording to professional broadcasting and commercial recording studios.

Polar pattern

The TLM 103 is equipped with a large diaphragm capsule with cardioid pattern. By focusing on this pattern – used in most recording situations – the attenuation of unwanted rear sound has been optimized.

Off-axis sounds are rendered naturally while isolation is increased. This also leads to a high feedback suppression when the microphone is used in live situations or where loudspeaker playback is a factor.

Acoustic features

The TLM 103 is addressed from the front, marked with the red Neumann logo on the microphone body.

The K 103 large diaphragm capsule is based on the K 87, well known from the U 67 / U 87 microphones.

Features

- Large diaphragm cardioid microphone
- Pressure-gradient transducer with one-diaphragm capsule
- Transformerless circuitry
- Extremely low noise: 7 dB-A
- Includes swivel mount
- Straightforward handling for homerecording and professional studios
- High-quality professional equipment for limited budgets

Application Hints

- A universal cardioid mic
- Vocalist recording
- Announcer's mic for broadcasting/voice over
- Due to minimal self-noise:
- on-air mic for radio/broadcast
- very low amplitude signals
- radio drama
- sampling
- foley/sound effects
- Home recording and project studios
- · Spot mic for:
- wind instruments
- strings
- percussion
- guitar amps
- drum overhead

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

Delivery Range

TLM 103 (mt) Microphone, SG 1 Stand mount swivel, Wooden box

Catalog No.

TLM	103		ni	08430
TLM	103	mt	blk	08431

Selection of Accessories

Power supply, N 48 i-2 (230 V) Power supply, N 48 i-2 (117 V) Power supply, N 48 i-2		
(without plug-in mains unit)		
Battery supply, BS 48 i	blk	06494
Auditorium hanger, MNV 87	ni	06804
Auditorium hanger, MNV 87 mt	blk	06806
Table Stand, MF 3		
Elastic suspension, EA 1	ni	08449
Elastic suspension, EA 1 mt	blk	08450
Popscreen, PS 10	blk	07345
Popscreen, PS 20		
Windscreen, WS 87	blk	06753
Microphone cable, IC 3 mt Microphone cable, IC 4	blk	06543
(with stand mount swivel)	ni	06547
Microphone cable, IC 4 mt		
(with stand mount swivel)	blk	06557

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

Meaning of color codes: blk = black, ni = nickel

TLM 103

Large Diaphragm Microphone





TEC AWARDS TECHNICAL EXCELLENCE & CREATIVITY OUTSTANDING TECHNICAL ACHIEVEMENT MICROPHONE TECHNOLOGY

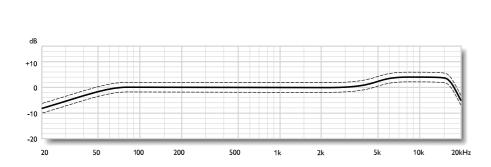
Neumann TLM 103

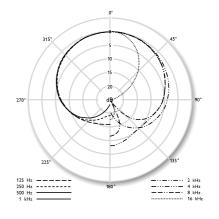
MIX FOUNDATION

TLM 103

Large Diaphragm Microphone

Technical Data





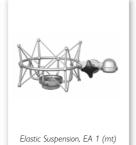
Acoustical operating principle	Pressure gradient transducer
Directional pattern	Cardioid
Frequency range	20 Hz20 kHz
Sensitivity at 1 kHz into 1 kohm	21 mV/Pa
Rated impedance	50 ohms
Rated load impedance	
Equivalent SPL CCIR 468-3	17.5 dB
Equivalent SPL DIN/IEC 651	7 dB-A
S/N ratio CCIR 468-3	76.5 dB
S/N ratio DIN/IEC 651	87 dB

Maximum SPL for THD 0.5%	138 dB
Maximum output voltage	13 dBu
Dynamic range of the microphone amplifier DIN/IEC 651	131 dB
Supply voltage	48 V ± 4 V
Current consumption	3 mA
Matching connector	XLR 3F
Weight	approx. 500 g
Diameter	60 mm
Length	132 mm

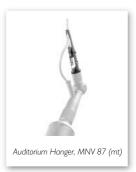
Selection of Accessories





















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