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 103 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 ambs
- 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 103 Stand mount swivel, Wooden box

Catalog No.

TLM	103	ni	08430
TLM	103 mt	blk	08431

Power supply. N 48 i-2 (230 V) blk 06500

Selection of Accessories

1 OVECT Supply, 14 TO 12 (230 V)	
Power supply, N 48 i-2 (117 V)blk	06502
Power supply, N 48 i-2	
(without plug-in mains unit) blk	06504
Battery supply, BS 48 iblk	06494
Auditorium hanger, MNV 87nini	00004
Auditorium hanger, MNV 87 mt blk	06806
Table Stand, MF 3blk	07321
Elastic suspension, EA 103nini	08432
Elastic suspension, EA 103 mt blk	08428
Popscreen, PS 10blk	07245
Popscreen, PS 20blk	07346
Windscreen, WS 87blkblk	06753
Microphone cable, IC 3 mtblk	04542
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Microphone cable, IC 4	
(with stand mount swivel)nini	06547
Microphone cable, IC 4 mt	
(with stand mount swivel) blk	06557
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A complete survey and detailed descriptions of all accessories are contained in the accessories catalog.

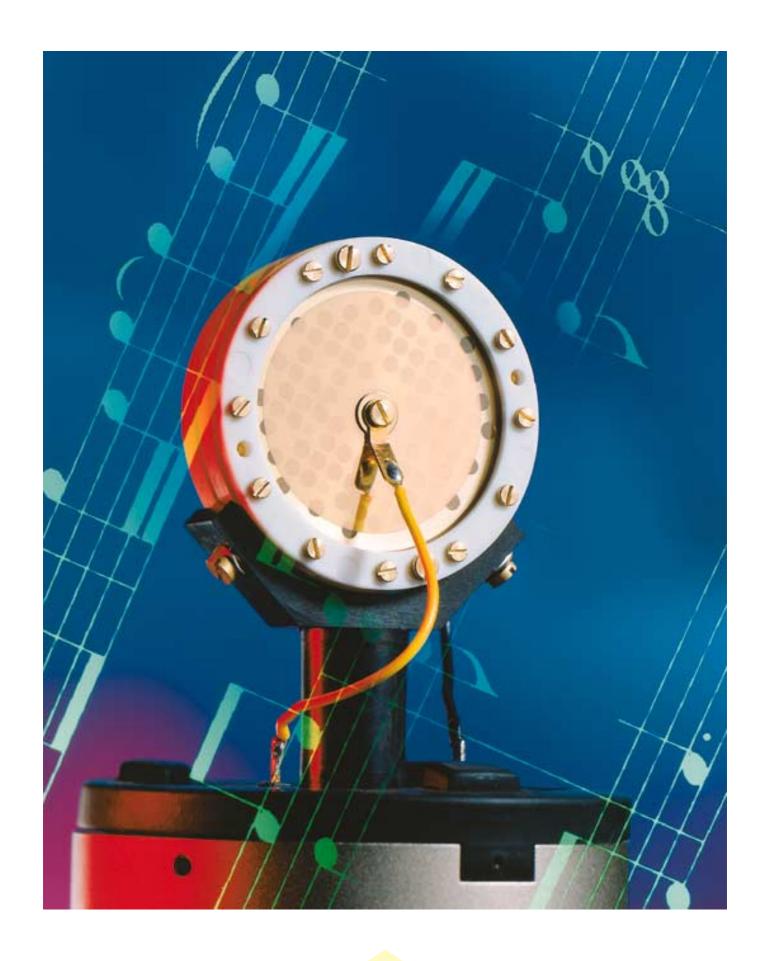
Meaning of color codes: blk = black, ni = nickel

TLM 103

Large Diaphragm Microphone



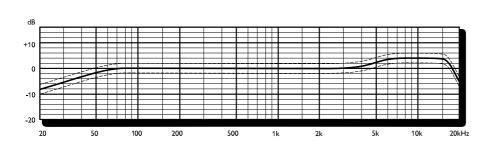


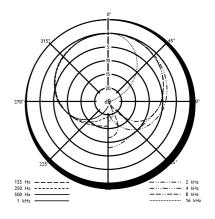


TLM 103

Large Diaphragm Microphone

Technical Data





 Acoustical operating principle
 Pressure gradient transducer

 Directional pattern
 Cardioid

 Frequency range
 20 Hz. 20 kHz

 Sensitivity at 1 kHz into 1 kohm
 21 mV/Pa

 Rated impedance
 50 ohms

 Rated load impedance
 1000 ohms

 Equivalent SPL CCIR 468-3
 17.5 dB

 Equivalent SPL DIN/IEC 651
 7 dB-A

 SIN ratio CCIR 468-3
 76.5 dB

 SIN ratio DIN/IEC 651
 87 dB

Maximum SPL for THD 0.5%138 dBMaximum output voltage13 dBuDynamic range of the microphone amplifier DIN/IEC 651131 dBSupply voltage48 V ± 4 VCurrent consumption3 mAMatching connectorXLR 3FWeightapprox. 500 gDiameter60 mmLength132 mm

Selection of Accessories



















