

MICROTECH GEFELL

microphones & acoustic systems - founded 1928 by Georg Neumann



MD 300

Dynamic microphone

with cardioid polar pattern

- optimized for broadcast applications
- frequency response optimized for intelligibility
- internal elastic capsule suspension reduces handling noise
- non-reflecting, robust NEXTEL[®] surface



Dynamic microphone MD 300

The MD 300 is a high-quality dynamic microphone with a frequency response of the transmission factor that has been optimized for intelligibility. It is featured with an especially accurate resolution at high frequencies and a well-balanced low-frequency transmission. It is insensitive to movements of the recorded sound source thanks to the cardioid polar pattern.

The MD 300 is useful as close-talking microphone for announcers of broadcasting services as well as for high-quality recordings of vocalists and instrumental soloists during live performances.

Acoustical specifications

A dynamic capsule with a cardioid polar pattern is inserted in the MD 300 as sound transducer. The frequency response has been optimized for low recording distances with an accentuation of approximately 2 dB between 2 kHz and 8 kHz to raise the speech and high-frequency presence. The change of the low end frequency response caused by the proximity effect is well-balanced without a very strong overemphasis at small microphone distances.

Electrical specifications

The sound transducer inserted into the MD 300 runs according to the moving-coil principle. The microphone is connected by a standard 3-pin XLR-male plug with a symmetric connection assignment. Because of the balanced low-impedance output, the MD 300 can be used for longer cable length with negligible distortion. The polarity of the microphone is in accordance with DIN 60268-4.

Mechanical specifications

The housing of the microphone is equipped with an integrated internal thread at the plug side that allows fixing elastic or inflexible holders, which are available as accessories. This allows using the microphone with microphone arms or stand mountings and as handheld microphone. The capsule is mounted elastically in the housing to attenuate solid-borne sounds and impulses. If a higher attenuation of such influences is required, it can be achieved by elastic holders and suspensions, which are available as accessories. Because of the weight of 330 g without accessories, the MD 300 can be used for longer periods as handheld microphone with negligible distortion.



Product overview



Delivery

The standard delivery of the MD 300 includes

Dynamic microphone	MD 300	
Microphone holder in carton	MH 80	
NEXTEL® S 139		Order-No. 2111155

Accessories

The following accessories are available optionally

Microphone holder NEXTEL® S 139	MH 80	Order-No. 202387
Microphone holder, turnable NEXTEL® S 139	MH 30	Order-No. 202388
Elastic suspension NEXTEL® S 139	EA 30	Order-No. 202389
Elastic suspension black matt	EA 92	Order-No. 202359
Connection cable	C 70	Order-No. 202212

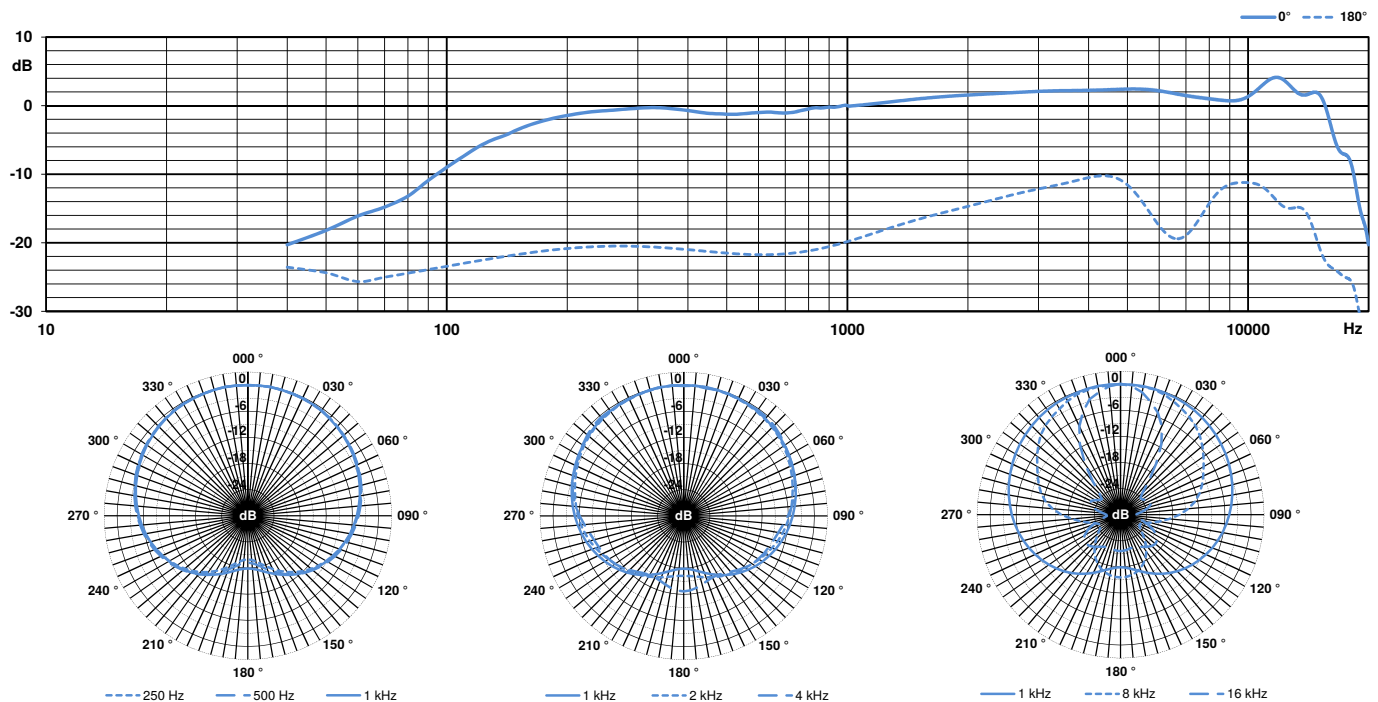


Technical specifications



Polar pattern		Cardioid
Acoustic operating principle		Pressure gradient transducer
Electrical operating principle		Moving-coil principle
Frequency range		50 - 16 000 Hz
Sensitivity		1,6 mV/Pa
Rated impedance		220 Ohm
Load impedance		≥ 1 kOhm
Magnetic field disturbing factor at 50 Hz		≤ 1 V/T
Output connector		XLR3M
Weight		330 g
Length		173 mm
Diameter	Protection grid	47 mm
	Housing	40 mm
Surface		NEXTEL® S 139

Frequency response and Polar pattern



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