LANGEVIN DUMAMIC MICROPHONES

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MD 211

MD 421HL

DIRECTIONAL STUDIO MICROPHONE

The MD 42l HL is a dynamic microphone of the very highest caliber, designed to meet the most demanding requirements of the recording, film, and broadcast industries, as well as those of the advanced amateur. This microphone onjoys an excellent reputation, and can be seen in the company of many famous performers and statesmen throughout the world today. The MD 42l HL covers the spectrum of 30 to 17,000 cps with a "transparent" quality which captures every nuance in a vocal pianissimo as well as the loudest crescendos of the symphony orchestra. Its response curve is exceptionally flat, assuring perfect frequency linearity and tonal balance throughout the audio spectrum. Because of its excellent directional characteristics, which are virtually independent of frequency, the MD 42l HL is address systems, where faithful reproduction must be combined with freedom from acoustic feedback. The MD 42l HL as an especially high nominal front-to-back ratio of 16 db. It is equipped with a special compensation coil which protects against the effects of stray magnetic fields.

MD21N

PROFESSIONAL MICROPHONE

When statesmen speak, the world listens. The microphone used to pick up their words has no second chance - it has to do for millions what is normally done in a conversation between two people.

The MD 21 N, the "work horse" of the broadcast industry, has become the standard of comparison. Its wide acceptance and almost legendary reputation for quality and durability are the result of many exclusive Langevin advances in microphone manufacture and design.

The MD 21 N operates as a pressure receiver with spherical directional characteristics. Its response curve is exceptionally flat between 40 and 17,000 cps, with a gentle rolloff above this frequency, to meet broadcasting and recording requirements.

MD211N

STUDIO MICROPHONE

The compactness of the MD 2II N is deceiving, for it belies the performance of this model. Besides possessing superior characteristics, as the specifications indicate, the MD 2II N is an exceptionally rugged microphone. Tested under extremes of humidity, shock and current, the microphone proved so durable that it could even be used as a speaker in emergencies! The MD 2II N has spherical directional characteristics, and provides exceptionally faithful reproduction in the wide range of 40 to 20,000 cps.

These microphones are astoundingly uniform and linear. Comparison of a test report curve (individually plotted and packed with each unit) from an MD 211 N selected at ranimum divergence of anly ± 2.5 db within the 40-17,000 cps range of the plot. These qualities are truly unusual in a microphone which is not custom made, let alone one which is so compact.

MD214N

LAVALIER MICROPHONE

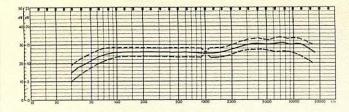
There are many situations in stage and film work, as well as in television, where the performer must have his hands free, both for singing and for speaking, or where the microphone must be as inobtrusive as possible. A properly designed lavalier microphone is ideal for these applications. You have noticed, no doubt, we said "properly designed." This is because certain problems must be overcome in lavalier design.

A microphone which touches the chest is in an extremely poor position for proper pickup of higher frequencies. If, for instance, our superlative MD 211 N dynamic microphone were used as a lavalier microphone, the results would be quite poor, because high frequencies would be muffled. Midrange frequencies, on the other hand, would be emphasized, because the chest tends to resonate at these frequencies (practically the same for men and women,) and acts as a sound source, producing undesired tonal coloration by adding extra sound at these frequencies.



DIVISION OF SCIENTIFIC INDUSTRIES, INC. 1801 E. Carnegie Ave., Santa Ana, California92705 Phone (714) 546-8830

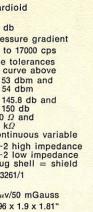


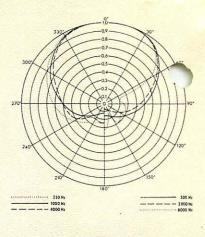


Frequency response (with tolerance limits)

MD 421HL

Directional characteristic ca	ardioi
Front to back discrimination	
at 1000 cps and 180° 16	db
Acoustic mode of operation . pr	ressu
Frequency range 30) to 1
	e tol
Output level, ref	53 d
Imw/10 dynes/cm ²	54 d
	145.8 150 c
	0Ωε kΩ
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3.	+2 hi +2 lo
Connector required T (supplied with microphone)	3261/
Magnetic stray interference . 5	μv/50
Dimensions 6.	96 x 1
	oz.





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Frequency response (with tolerance limits)

MD 211 N

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Frequency response (with tolerance limits)

MD 21N

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Frequency response used as a lavalier microphone
Frequency response in a free soundfield on axis

MD 214 N

Directional characteristic	omnidirectional
Acoustic mode of operation	pressure receiver
Maximum deviation from nominal frequency response between 40 + 17000 cps	± 2.5 db
Output level ref. 1 mw/10 dynes/cm ²	- 56.8 dbm
EIA rating	- 149.3 db
Impedance	200 Ω
Connector required (supplied with microphone)	T 3261/1
Pin connection	1 Audio, 3 Audio, 2 shield
Magnetic stray interference	40 µv/50 mGauss
Dimensions	⁷ /s" dia. – 4 ⁶ /s" long
Weight	4.5 oz.

omnidirectional
pressure receiver
± 3 db
— 53 dbm
— 145.8 db
-200 Ω
1 audio 3 audio 2 shield
T 3261/1
100 µv/50 mGauss
46/s x 17/s x 17/s"
10 oz.

Directional characteristic	omnidirectional
Acoustic mode of operation	pressure receiver
Maximum deviation from nominal frequency	
response	± 2.5 db
Output level ref. 1 mw/10 dynes/cm ²	- 59 dbm
EIA rating	- 151.8 db
Impedance	200 Ω
Magnetic stray interference	8 μv/50 mGauss
Dimensions	3 x 11/s x 11/s inches, cord length 33 feet
Weight	5 oz. (without cord)