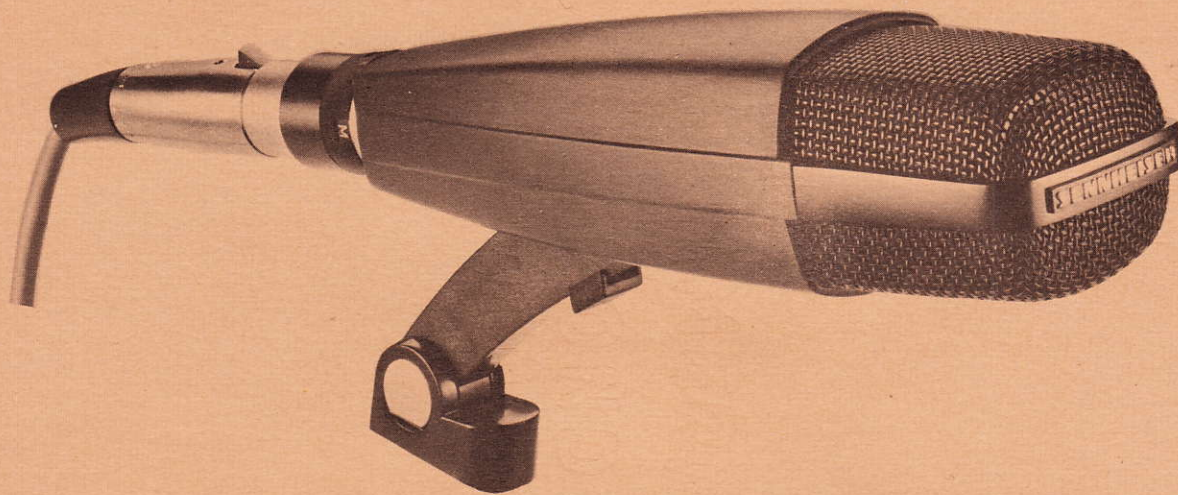


SENNHEISER

Studio Cardioid Microphone MD 421 - U



FEATURES

- Dynamic cardioid studio type
- Directional pattern almost equally distributed over entire range
- Rejects low frequency undesirable noises
- Helps control feedback
- Built-in hum compensating coil
- Built-in continuously variable low frequency roll-off filter
- Professional broadcast quality

DESCRIPTION

The MD 421-U is a dynamic microphone of the very highest calibre, designed to meet the most demanding requirements of the sound system installing, recording, film, and broadcast industries. This microphone enjoys an excellent reputation, and can be seen in the company of many famous performers and statesmen throughout the world today. The MD 421-U 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 421-U is ideal for use in "spot" recording, where surroundings may be acoustically unfavorable, or in high-fidelity studio public-address systems, where faithful reproduction must be combined with freedom from acoustic feedback. The MD 421-U has 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. A continuously variable bass filter allows adjustment for difficult acoustical environments.

The MD 421-U is a Dynamic Cardioid, low impedance, microphone.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The microphone shall be of the dynamic moving coil type. The frequency response shall be 30-17,000 cps. The pick-up pattern shall be cardioid with a front to back ratio of 16 db min. This microphone shall have an impedance of 200 ohms (150/250 classification) and shall be balanced in respect to ground. It shall also be equipped with a continuously variable acoustical bass filter for attenuating frequencies below 100 cps for speech purposes.

The microphone shall weigh not more than 15 oz. and shall be housed in the case illustrated, which shall have a non-reflecting finish.

The microphone shall have an output of -53 dbm (-53 db/10 dynes/cm²).

The performance specifications shall be listed under SPECIFICATIONS and shall be met or exceeded.

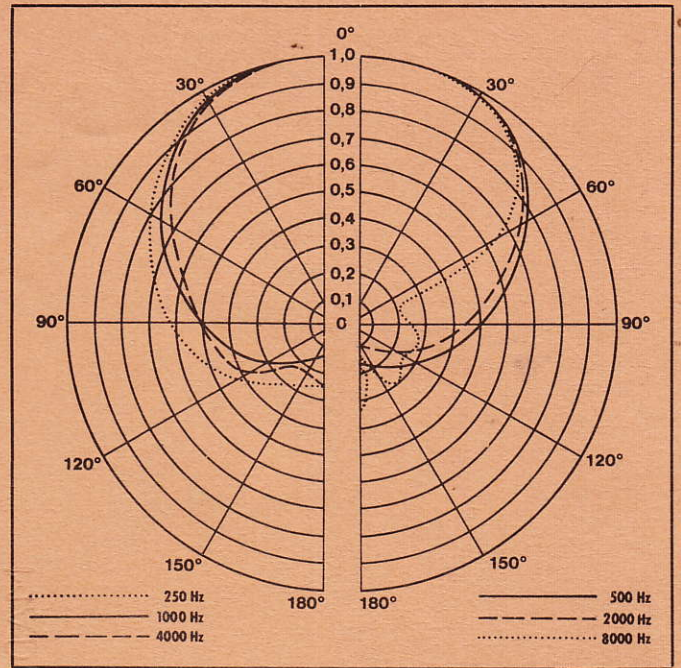
The microphone shall be SENNHEISER Model MD 421-U, MD 421-9N.



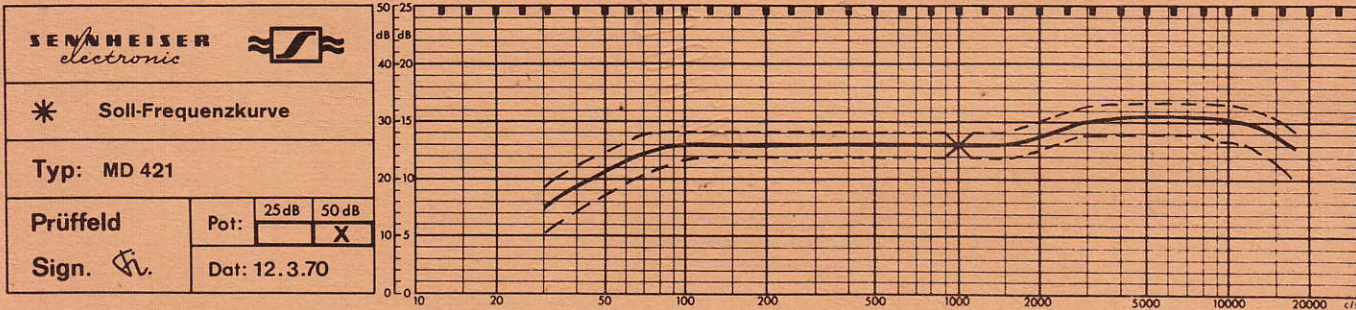
10 West 37th Street, New York, N.Y. 10018

Technical Data

| | |
|---|------------------------------------|
| Acoustical mode of operation | Pressure gradient |
| Frequency range | 30 – 17,000 Hz |
| Tolerance limits | See frequency response curve above |
| Sensitivity (1 kHz) | 0.2 mV/ μ bar |
| | \pm 3 dB |
| Output level ref. 1 mW/10 dynes/cm ² | - 53 dbm |
| EIA rating | - 145.8 db |
| Impedance (1 kHz) | 200 Ω |
| Directional characteristics | Cardioid |
| Front to back ratio | 18 dB – 2 dB |
| Sensitivity to magnetic fields | approx. 5 μ V/50 mG |
| Dimensions | 177 x 48 x 46 mm |
| Weight | 14 oz. |
| Connector | XLR |
| Pin connections | 2 + 3: signal, 1: ground |



A smooth 5 db increase is provided in the range above 3000 Hz to add presence to the recording.



Nominal frequency response curve (with tolerance limits) MD 421
Every MD 421 is supplied with its own factory frequency response curve.

We reserve the right to alter the specifications especially with regards to technical improvements.

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