



**MICROPHONES • HEADPHONES**  
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**NORTH AMERICAN PHILIPS COMPANY, INC.**  
 100 EAST 42nd STREET, NEW YORK, NEW YORK 10017

# CARDIOID Dynamic Microphone

## D-190E/D-190TS



### DESCRIPTION

The D-190E is the latest addition to the renowned line of AKG microphone with directional pick-up characteristics.

The unit is based on the development of a new cardioid dynamic microphone system which distinguishes itself by a smooth response over a wide range with exceptional front-to-back discrimination at all frequencies.

These features ensure clean and effortless sound transmission without feedback, as well as exceptionally good recordings even under acoustically unfavorable conditions.

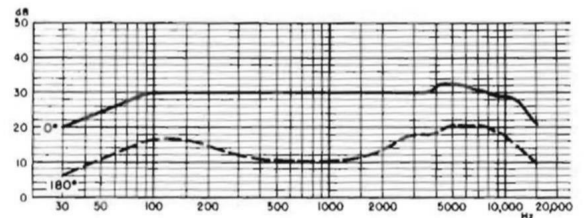
The entire microphone system is suspended within the housing, a feature which greatly reduces handling noise. An integral sintered bronze cap eliminates the disturbing effects of breath noise and air turbulence and also protects the microphone system from dust, iron particles, and moisture.

The D-190E is equipped with an XLR type connector and is supplied complete with 15' cable with mating connector, stand adapter, and case.

The D-190TS may be ordered for high impedance and on-off switch operation. Package includes D-190E with stand adapter and case, plus MK-7/TS-5 cable assembly 15' long incorporating an on-off switch, high impedance transformer, and phone plug.

### TECHNICAL DATA

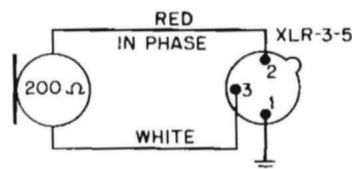
Frequency range	40-15,000 Hz., $\pm 3$ dB
Sensitivity	-53 dB (re 1mW/10 dynes/cm <sup>2</sup> )
Impedance (D-190E)	200 ohms
Directional characteristics	Cardioid
Dimension	6 1/4" x 1 1/2"
Weight	6 oz.



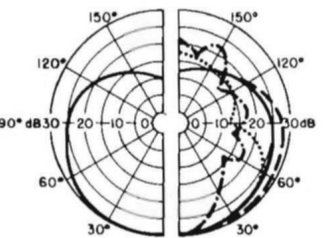
### ACCESSORIES

- W-4 ..... Windscreen, foam
- W-24 ..... Windscreen, metal
- SA-10/3 ..... Stand adapter (around connector)
- H-24 ..... Anti-shock suspension
- MSH-58E ..... Flexible shaft
- MK ..... Series cable
- AKG ..... Standard and anti-shock stands

### CONNECTION DIAGRAM



- 125 Hz
- - - 250 Hz
- · · 500 Hz
- 1,000 Hz
- 2,000 Hz
- - - 4,000 Hz
- · · 8,000 Hz
- 16,000 Hz



### ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be of a cardioid dynamic type with a frequency range of 40 to 15,000 Hz, and the frequency response shall be  $\pm 3$  dB. The front-to-back discrimination shall exceed 18 dB at 1,000 Hz., at a sound incidence angle of 180°, and an effective cardioid characteristic shall be maintained over the entire frequency range.

The output level shall be -53 dB (re 1mW/10 dynes/cm<sup>2</sup>) at 200 ohms impedance ( $\pm 20\%$ ) and the microphone shall be capable of handling a maximum sound pressure level of 500  $\mu$ bar (128 dB), at 1,000 Hz., with distortion not exceeding 0.5%.

An integral sintered bronze cap, commensurate with the acoustical properties of the unit, shall protect the microphone system from iron particles, dust and moisture. The diaphragm material shall be non-metallic MAKROFOL. The finish of the microphone shall be matte light metallic gray and shall not reflect light.

The microphone shall incorporate a 3-pin male XLR type receptacle, and shall be provided with a stand adapter suitable for standard 5/8"-27 thread. The microphone shall be 6 1/4" long by 1 1/2" diameter and the weight shall not exceed 6 oz.

The microphone specified shall be the AKG D-190E.

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