

Rugged Flexboom Dynamic Microphone

Passive Noise Cancellation and Rugged Flexibility

Featuring a ruggedized flexboom, this dynamic microphone provides improved speech intelligibility through the introduction of passive noise-cancelling technology. This microphone was developed as a direct replacement for the M-87/A1C and other Gentex-manufactured 5 ohm microphones.



N100593-06 Rugged Flexboom 5 ohm Dynamic Microphone

KEY FEATURES

Maximum Performance

Third-party testing has demonstrated* the Gentex Rugged Flexboom significantly outperforms the legacy M-87/A1C, providing low distortion and excellent passive noise cancellation performance which translates into high speech intelligibility (greater than 80% MRT) in noise environments up to 115 dBA.

Optimal Design

The ruggedized gooseneck tubing with integrated mount ensures proper microphone positioning in high wind, while also providing ease of positional flexibility when the microphone is needed. The mount enables installation on either the left or right hand side of the helmet, no special tools needed.

Seamless Integration

The Gentex rugged dynamic microphone is retrofittable to upgrade legacy 50hm microphones. Use existing knurled nut hardware or upgrade to the flush mount hardware for weight savings.

COMPATIBILITY

The Gentex Rugged Flexboom Dynamic Microphone is compatible with:

- Gentex Rotary Wing Helmets: HGU-56/P and Alpha
- Gentex Fixed Wing Helmets: HGU-55/P

COMPLIANCE

Compliance with parts of the following:

- MIL-STD-810G, with Change 1 Environmental
- MIL-PRF-26542F General Specifications for Dynamic Microphones



Knurled nut wire boom mounting hardware



Flush mounting boom hardware

*Testing was performed by The US Air Force Research Laboratory (AFRL) in representative rotary-wing noise environments.



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SPECIFICATIONS

Frequency Response: 350 Hz to 6300 Hz Sensitivity @1 kHz, 94 dB SPL input: -86 dBV +/- 5dB Distortion: Less than 5 % THD at 114 dB SPL across specified frequency response Speech Intelligibility: Greater than 90% MRT tested at 110 dBA SPL Greater than 80% MRT tested at 120 dBA SPL Rated Load Resistance: 5 Ω Electrical Impedance: 5 Ω +/- 20% at 20°C +/- 5°C at 1kHz Color: Lusterless black Connector Type: Integrated U-173/U Operating Altitude Rating: @ 18,000ft Sensitivity within +/- 6 dB of ground level Frequency Response within +/- 3 dB of ground level Boom Mechanical Wind Resistance: Greater than 100 knots Weight: Less than 50g Environmental: Tested per MIL-STD-810G **Temperature:** -40°C to + 71°C Operating Background Noise Cancellation: Below 1500 Hz



Near Field (Voice)/Far Field (Background Noise) Crossover



Polar Response @ 1KHz



DIMENSIONS

TEST CIRCUIT



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