RE18

Shock-Mounted Variable-D® Dynamic Cardioid

The RE18 is a direct descendant of the popular RE15 and RE16 microphones. While maintaining the accurate frequency response and super-cardioid polar pattern of the RE15, the RE18 has added an integral shock mount for even better performance. Superb shock isolation sharply reduces handling and cord noise, and in sound reinforcement systems it effectively silences mechanical stand and lectern noises. A refined, low-profile blast filter makes possible close hand-held use without "P-pops." The Memraflex grille screen resists dents and keeps its shape. A "hum-buck" coil rejects hum in the presence of heavy alternating magnetic fields from stage lighting and power transformers. The silver tone beige finish is perfect for TV.

Unlike "multi-port" directional microphones, E-V's exclusive Variable-D design insures uniform frequency response at all angles for uncolored off-axis pickup. Additionally, Variable-D design eliminates bass-boosting proximity effect for those situations where frequency response needs to be uniform regardless of the mike-to-sound-source working distance.

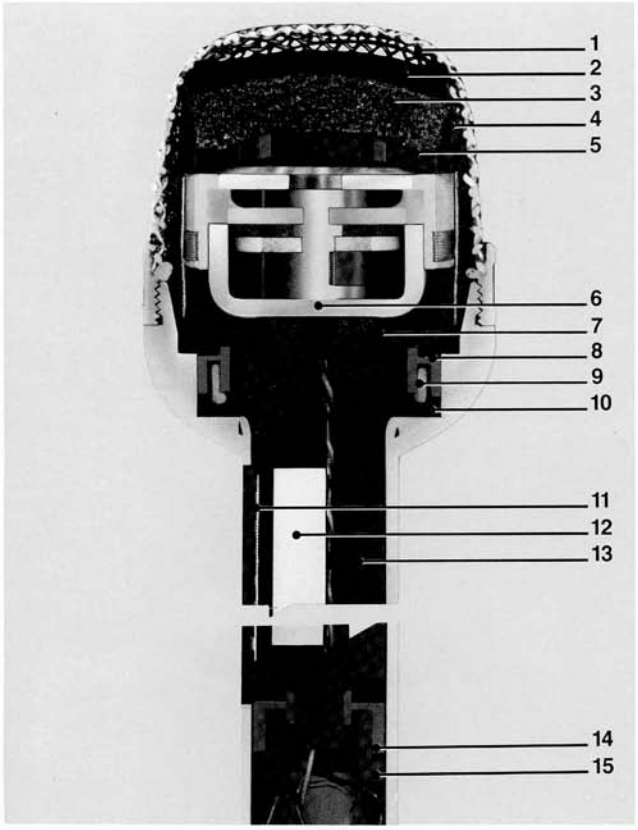
The super-cardioid polar response of the RE18 rejects more random unwanted noise than the standard cardioid pattern. Two nulls at 150° off axis instead of one at 180° off axis, make the RE18 superb for applications where ambient noise rejection is mandatory.

DO56

Shock-Mounted Dynamic Omnidirectional

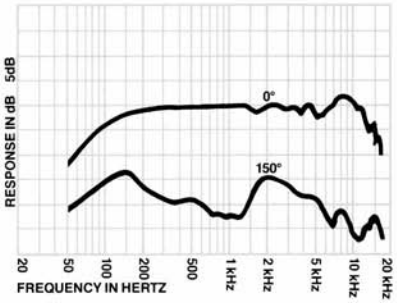
The DO56 is a shock-mounted omnidirectional microphone for hand-held broadcast and sound reinforcement applications. All handling noises and cord vibration are isolated from the microphone element. Shock isolation is enhanced by having the main acoustic cavity and the diaphragm/voice-coil assembly isolated as a unit from the case. Butyl rubber shock rings act as the spring in the isolation system. A capsule/case collision is impossible. This "G-factor" margin makes the DO56 less susceptible to the bell-like clang heard from other shock-mounted microphones when they are accelerated or decelerated rapidly.

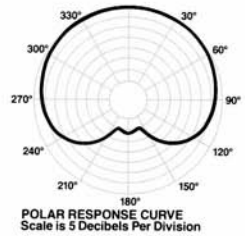
Frequency response extends to 18,000 Hz. A slow rolloff below 200 Hz (−8 dB at 50 Hz,) combined with slight emphasis in the 2,000-12,000 Hz range gives the DO56 excellent vocal qualities without low-frequency noise interference. A high-density Acoustifoam™ blast filter protects against "P-pops." The steel and aluminum case was chosen for perfect hand-held balance. The Memraflex grille screen bounces back to keep its shape. A slim, attractive silhouette and the silver tone beige finish are ideal for on-camera use.



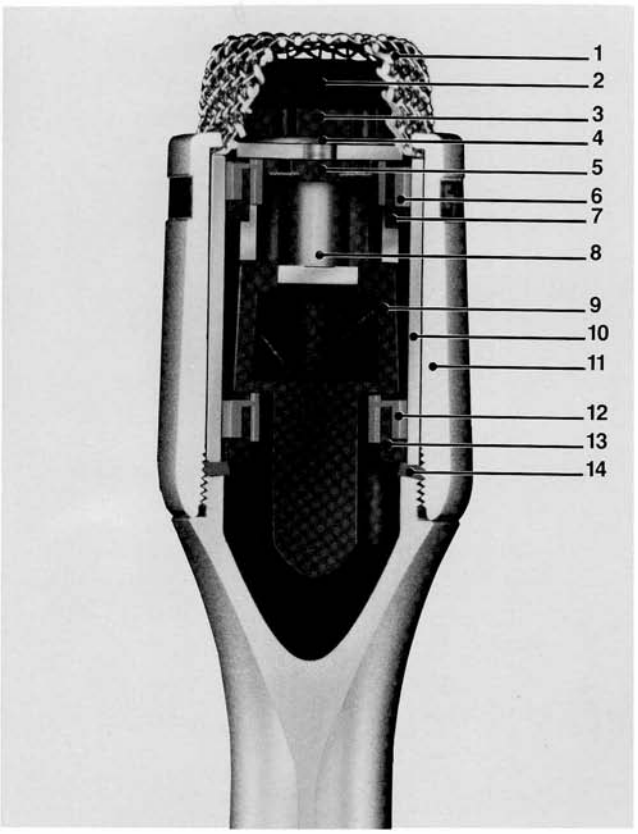
Frequency Response: 80-15,000 Hz
Impedance: 150 ohms
Output: – 57 dB
Diaphragm: EV Acoustalloy®
Case: Steel
Finish: Silver tone beige
Size:
178mm (7″) long;
41mm ($1^{25}/_{32}$″) max. diameter;
19mm (¾″) shank diameter
Weight: 230 grams (8 oz)
Cable: 4.6m (15′) Switchcraft A3F conn.
Included: 312B stand adapter, protective vinyl carrying pouch

1 Memraflex grille screen
2 High-density Acoustifoam™ windscreen
3 Low-density Acoustifoam™ windscreen
4 Cloth side port windscreen
5 High-frequency-extending Helmholtz resonator
6 High-flux magnet structure
7 Fully isolated rear cavity
8 Butyl rubber front shock mount
9 Silicon oil-filled impact damping pad
10 Nonmetallic mount support
11 Variable-D port grille screen
12 Resonance-lowering lead counterweight
13 Nonmetallic transducer body
14 Butyl rubber rear shock mount
15 Nonmetallic mount support



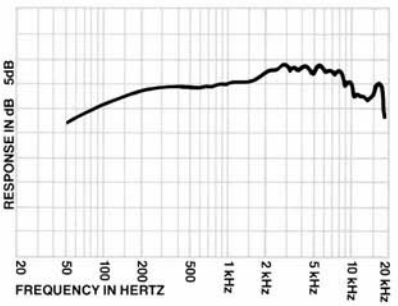


POLAR RESPONSE CURVE
Scale is 5 Decibels Per Division



Frequency Response: 80-18,000 Hz
Impedance: 150 ohms
Output: – 61 dB
Diaphragm: EV Acoustalloy®
Case: Steel and aluminum
Finish: Silver tone beige
Size:
159mm (6¼″) long;
37mm ($1^{15}/_{32}$″) max. diameter;
19mm (¾″) shank diameter
Weight: 185 grams (6.5 oz)
Cable: 4.6m (15′) Switchcraft A3F conn.
Included: 312B stand adapter, protective vinyl carrying pouch

1 Memraflex grille screen
2 High-density Acoustifoam™ windscreen
3 Response-extending Helmholtz resonator
4 Barometric equalization port in Acoustalloy® diaphragm
5 Preadjusted main damping
6 Front butyl rubber mount
7 Nonmetallic shock mount support rings
8 High-flux magnetic structure
9 Isolated rear cavity, nonmetallic
10 Steel transducer housing
11 Aluminum front housing
12 Rear butyl rubber mount
13 Nonmetallic shock mount support rings
14 Rubber compression pad



New Product

MEET THE NEW DO56L

Since its introduction nearly two years ago, the DO56, shock-mounted, hand-held, omnidirectional microphone (with extended handle for ENG), has proven itself to be an excellent performer acoustically, extremely low in sensitivity to mechanical shock noise, and perfectly capable of withstanding the kind of rough handling to which it has often been subjected in sound reinforcement and news gathering applications. The addition of the new DO56L is "an extension of an already great idea," and will serve to compliment the growing sales of the DO56. Both the DO56 and DO56L can be sold with confidence to your most demanding customers, and by offering both, you have the flexibility to meet their specific applications need head-on!

TESTED AT THE TOP

You have probably already seen prototypes of the DO56L being field tested by such people as Phil Donahue, David Letterman, WNBC in New York, and Tom Snyder of the Tomorrow Show. The results of this field testing have revealed a number of very real advantages inherent in the DO56L as compared to conventional interview microphones.

LONG ON ADVANTAGES

An obvious advantage of the DO56L, of course, is its physical length. Without the A3F cable connector added, the DO56L has an overall length of 11.5 inches. The added length of the DO56L makes it possible to move in close for an interview without the necessity of thrusting the interviewer's hand rudely into the face of the interviewee. This is not only less offensive, but certainly improves the visual image in a video close up. A decrease in microphone working distance of just a few inches from the sound source can result in a substantial improvement in audio quality. For example, using the DO56L to comfortably allow the microphone element to be moved from 12 inches away from the speakers mouth to a six-inch distance will provide an apparent 6 dB improvement in signal-to-(ambient) noise, a 6 dB reduction of room reverberation, and a 6 dB gain-before-feedback advantage.

HUMAN ENGINEERED FOR IMPROVED PERFORMANCE

Observation has shown that the most comfortable position in which to hold a microphone while doing a "stand-up" in news is with the arm bent at the elbow to a right angle with the microphone holding hand at approximately waist level. Substitute the DO56L, with its added length, for a microphone of ordinary length in this situation, and the microphone element may easily find itself moved half the distance to the sound source. Once again, inverse square law pulls through with an offering of 6 dB advantage in signal-to-noise, room reverberation reduction, and gain-before-feedback.

MEETS THE NEEDS OF MANY MARKETS

Although a major market for the DO56L is television it certainly is not the only one. The DO56L will provide the same advantages in audio quality and working ease in numerous sound reinforcement applications. For example, many schools and churches have applications for a microphone very specifically and ideally designed for interview purposes. The carefully **shaped frequency response**, excellent **shock mount** characteristics, extended **length**, high **cosmetic appeal**, and **affordable price** make the DO56L a logical choice for most interview requirements.