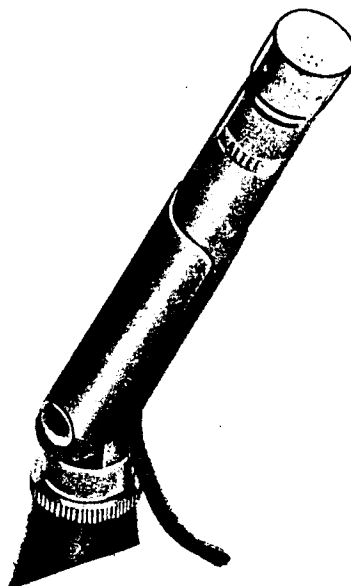
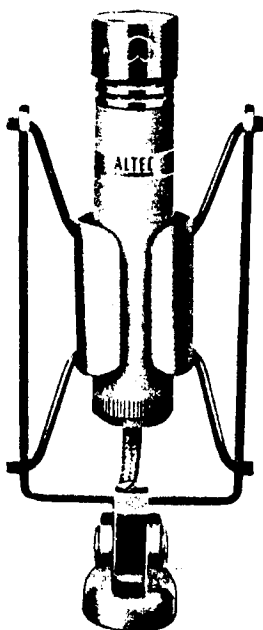


M30 Cardioid Microphone System

M30



Small size

Wide range discrimination

Condenser quality

20-20,000 cycle range

Complements omnidirectional

21 type

Great dynamic range

High damage resistance

The Altec M-30 Cardioid Condenser Microphone System represents a truly new standard for quality in directional microphones. It has all of the smooth, extended frequency response characteristics and damage resistance normally associated with Altec condenser microphones, and it has a directional cardioid pattern that is outstanding in its discrimination. In addition it has the advantage of extremely small size.

The frequency range is from 20 to 20,000 cycles, being down only 3 db at 50 cycles and flat to beyond 18,000 cycles. Midrange discrimination exceeds 20 decibels and discrimination at the extremes of the frequency range is better than 10 db.

Heart of the M-30 system is the 29A Condenser microphone. It is interchangeable with the omnidirectional 21 type microphone in existing M-20 systems with only minor modifications to the associated equipment.

The 29A is attached to the 175A Base which houses a premium performance subminiature impedance matching tube and provides interconnection between the 29A and the 525A Power Supply. The 175A Base is supplied with fifteen feet of abrasion resistant fibreglas microphone cable.

Completing the system is the 525A Power Supply which provides the necessary voltages to the impedance matching tube and the 29A microphone, the 166A slip-on stand attachment with swivel base, and the 169A Shock Mount Stand Holder for use in critical recording and pick-up conditions.

The M-30 Microphone System will be found superior to all others for its small size, regularity of discrimination and smoothness of frequency response. It is the first miniature directional microphone capable of translating the entire frequency and dynamic range without false accentuations.



A Subsidiary of Ling-Temco Electronics, Inc.

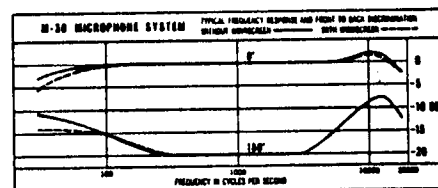
1515 S. Manchester Ave., Anaheim, Calif.

New York, Los Angeles

THE M-30 MICROPHONE SYSTEM CONSISTS OF:

29A Microphone

Type: Condenser
 Directivity: Cardioid
 Frequency Range: 20 to 20,000 cps
 Frequency Response: See curve
 Discrimination: See curve
 Hum: Not susceptible to magnetic fields
 Capacitance: 50 mmf
 Dimensions: $\frac{3}{4}$ " Diameter, $2\frac{1}{2}$ " Seated Height
 Finish: Stainless Steel



175A Base

Dimensions: $\frac{1}{4}$ " Diameter, $2\frac{1}{4}$ " Long
 Tube: 1 type 5840
 Finish: Anodized gray

166A Stand Attachment

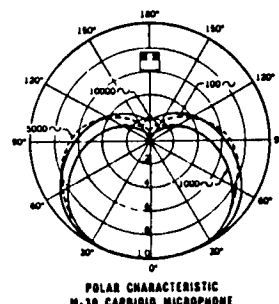
Mounting: $\frac{3}{8}$ " — 27 thread
 Finish: Gray plastic

169A Shock Mount

Mounting: $\frac{3}{8}$ " — 27 thread
 Finish: Gray

525A Power Supply

Power Requirements: 117 volts, 60 cycles, 15 watts
 System Output Level from
 Power Supply:
 Unbalanced:
 High Impedance
 (10,000 ohms or higher) —35 db/1v/10 dynes/cm² (open circuit voltage)
 600 ohms —54 dbm/10 dynes/cm²
 150 ohms —58 dbm/10 dynes/cm²
 30 ohms —64 dbm/10 dynes/cm²
 Balanced:
 Using 4665 Plug-in
 Transformer for 30,
 150 or 600 ohms —53 dbm/10 dynes/cm²
 Load Impedance: 30, 150, 600 balanced (using 4665 Transformer)
 30, 150, 600, 10,000 ohms unbalanced
 Dimensions: 2 $\frac{3}{8}$ " H, 8 $\frac{1}{2}$ " W, 7 $\frac{1}{2}$ " D
 Finish: Gray anodized panel, silver gray case



ACCESSORIES (order separately as required)

170A Wind Screen (clamps between microphone and base) Diam: $1\frac{1}{2}$ " Max. Length: $2\frac{1}{4}$ "
 4665 Plug-in Transformer for balanced output line
 167A Extension Cable 25 feet long equipped with Cannon RWK 6-22C and RWK 6-21C cable connectors.
 1883-H6 Cable—slim Fiberglass covered cable as supplied with 165A Base
 11853 Rack Mounting Assembly for two 525A Power Supplies. Rack Space: $3\frac{1}{2}$ ". Finish: Green.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The microphone system shall be of the condenser type with a cardioid directional pick-up pattern. To insure stable operation, it shall not employ oscillator/demodulator or other means requiring radio frequencies. Frequency response shall be uniform from 20 to 20,000 cps. A cathode follower circuit shall be in close proximity to the microphone and the entire assembly shall not be greater than $\frac{5}{8}$ " in diameter and $3\frac{1}{2}$ " in length. Weight of the microphone shall not exceed 2 ounces. Larger microphones which tend to obstruct view of the user will not be acceptable under this specification.

Output level shall be at least (choose one) (a) —54 dbm when terminated by 600 ohms and unbalanced, (b) —58 dbm when terminated by 150 ohms and unbalanced, (c) —64 dbm when terminated by 30 ohms and unbalanced, (d) —53 dbm when terminated by a nominal impedance and balanced with respect to ground. The cardioid directional microphone shall provide at least 20 db front to back discrimination throughout the entire mid-range and shall have at least 10 db front to back discrimination at the frequency extremes. It shall be Altec Lansing Model M-30 Cardioid Condenser Microphone System.