

650A & 651AH Cardioid Microphones

650A
651AH



Features

Cardioid Pickup Pattern

Prestige Styling — Built in Spherical Breath/Wind/Pop Screen — Slim Tapered Design — Satin Chrome Finish

Performer Controls — Convenient On/Off Switch Bass Roll-off Switch

Extended Frequency Response

Excellent Front-to-back Discrimination

Rugged Mylar® Diaphragm

Dynamic Moving Coil Design

Moderate Price

PRECISION-BUILT, PROFESSIONAL QUALITY CARDIOID MICROPHONES DESIGNED FOR: NIGHT-CLUB SINGERS, MUSICIANS, ENTERTAINERS TAPE RECORDING AND INTERVIEW WORK — INDOOR AND OUTDOOR BANDSTANDS — SCHOOLS AND CHURCHES HIGH-QUALITY PUBLIC ADDRESS SYSTEMS

Expect the Finest — ALTEC 650A and 651AH Cardioid Microphones achieve a new excellence in microphone performance, incorporating all the advanced engineering benefits of dynamic moving coil units. These rugged, attractive, lightweight microphones feature built-in Wind/Breath/Pop screens that dramatically suppress unwanted noises. The cardioid pattern greatly reduces feedback and background noises. "Performer Controls" add great versatility to these units. The conveniently located On/Off switch can be locked in the ON position, when needed, with the lock-on cover plate. The Bass Roll-off Switch furnished on the 650A allows the performer to reduce feedback, subdue excess instrumental bass tones from 400 Hz down, and reduce rumble.

These microphones feature the latest styling concepts, a spherical screen and a slim, satin chrome finished body, adding to the success of any performance. They incorporate ALTEC'S Mylar® diaphragm, providing a smooth, uniform response and extreme ruggedness and durability. The diaphragm is highly resistant to the effects of shock, blasts or corrosive fumes, and is able to withstand extreme humidity and temperature variations.

The Deluxe Model 650A Cardioid Microphone provides the ultimate in performance. It has an easily changeable output impedance of 150/250 or 20,000 ohms and an output level of -56 dBm/10 dynes/cm². Average front to back ratio is 20 dB. The recessed Bass Roll-off Switch rolls off the frequency response from 400 Hz down. It comes with 15 feet of two-conductor shielded cable (100% shield), a Cannon XLR3-11C plug mounted on the microphone end of the cable and a standard phone plug on the amplifier end of the cable.

The Standard Model 651AH (high impedance) Cardioid Microphone presents a truly outstanding performance for amplifier circuits requiring high impedance source devices. It has an output impedance of 20,000 ohms and an output level of -57 dBm/10 dynes/cm². Average front to back discrimination is 15 dB. It comes with 15 feet of one-conductor shielded cable that is permanently attached to the microphone. On the other end of the cable there is a standard phone plug. ALTEC'S engineering pride and sophistication assures you that these sensitive, precision-built microphones will maintain the finest performance standards, whether stand-mounted or hand-held.



A Division of *LSV* Ling Altec, Inc.

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RECORDING &

BROADCASTING

EQUIPMENT

ALTEC 650A & 651AH

SPECIFICATIONS

| | MODEL 650A ONLY | MODEL 651AH ONLY |
|-----------------------|---|--|
| Type: | Dynamic Moving Coil, Cardioid | Dynamic Moving Coil, Cardioid |
| Frequency Response: | 50 to 15,000 Hz | 60 to 15,000 Hz |
| Bass Roll-off Switch: | Rolls off at 400 Hz down | Not Included |
| Output Impedance: | 150/250 Ω or 20,000 Ω easily interchangeable within the microphone | 20,000 Ω Only |
| Output Level: | -56 dBm/10 dynes/cm ² | -57 dBm/10 dynes/cm ² |
| Discrimination: | Average front to back, 20 dB | Average front to back, 15 dB |
| Dimensions: | 1 $\frac{3}{4}$ " dia. x 7 $\frac{1}{4}$ " long (less connector and cable) | 1 $\frac{3}{4}$ " dia. x 7 $\frac{1}{2}$ " long (less cable and strain relief) |
| Cable: | 15 feet of 2-conductor shielded cable (100% shield), a Cannon XLR3-11C plug mounted on the microphone end of cable and a standard phone plug on amplifier end of cable, wired for high impedance. | 15 feet of 1-conductor shielded cable, permanently attached to microphone and a standard phone plug on other end of cable. |

| | MODELS 650A and 651AH |
|-----------------|---|
| Pickup Pattern: | Cardioid |
| Hum: | -120 dB (Ref: 10 ⁻³ Gauss) |
| Finish: | Satin Chrome |
| Mounting: | Separate "slip-on" swivel adapter No. 193A (black). Adapter has standard $\frac{5}{8}$ " -27 thread. Swivel mounting permits proper positioning of the microphone on a stand. |
| Accessories: | See "Microphone Accessories" catalog sheet for floor stands, adapters and other accessories. |

ARCHITECTS AND ENGINEERS SPECIFICATIONS

For Model 650A

The microphone shall have a cardioid pickup pattern, with an average front-to-back discrimination of 20 dB. Frequency response shall be 50 to 15,000 Hz and output impedance shall be 150/250 ohms or 20,000 ohms. These output impedances shall be easily interchangeable within the microphone; no soldering shall be required. Output level shall be -56 dBm/10 dynes/cm². The microphone shall have a built-in On/Off switch and be 1 $\frac{3}{4}$ " in diameter (maximum) and not longer than 7 $\frac{1}{4}$ " (less connector and cable). The microphone shall have a built-in recessed Bass Roll-off Switch to allow a roll-off from 400 Hz down. Fifteen feet of 2-conductor shielded cable (100% shield), a Cannon XLR3-11C plug mounted on the microphone end of the cable, and a standard phone plug on the amplifier end of the cable, wired for high impedance, shall be included with the microphone. It shall have a spherical screen and a satin chrome finished body.

Any microphone not meeting all of the above specifications shall be unacceptable under this specification. The microphone shall be the ALTEC Model 650A Cardioid Microphone.

For Model 651AH

The microphone shall have a cardioid pickup pattern, with an average front-to-back discrimination of 15 dB. Frequency response shall be 60 to 15,000 Hz and output impedance shall be 20,000 ohms. Output level shall be -57 dBm/10 dynes/cm². The microphone shall have a built-in On/Off switch and be 1 $\frac{3}{4}$ " in diameter (maximum) and not longer than 7 $\frac{1}{2}$ " (less strain relief and cable). Fifteen feet of 1-conductor shielded cable shall be permanently attached to the microphone and a standard phone plug shall be attached on the other end of the cable. The microphone shall have a spherical screen and a satin chrome finished body.

Any microphone not meeting all of the above specifications shall be unacceptable under this specification. The microphone shall be the ALTEC Model 651AH Cardioid Microphone.

NOTICE
We recommend that you obtain your Altec products from factory trained authorized Altec Sound Contractors and Distributors. This will assure you of proper installation, a continuing source of knowledgeable advice, service, and quick warranty protection.