



Industrial Audio Products

CTM 77 ELECTRET CONDENSER CARDIOID MICROPHONE

Description

The **Astatic CTM 77** is a superior low-noise, electret condenser cardioid microphone designed for professional vocalists and musicians. The **CTM 77** provides the performance and features to satisfy today's most demanding professionals.

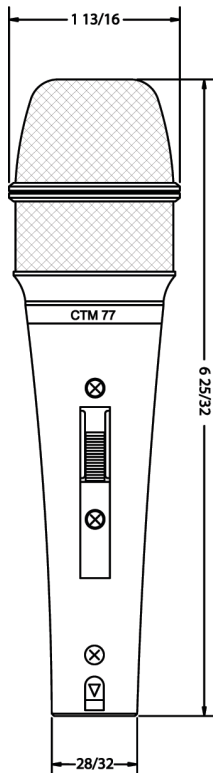
The wide and flat frequency response of the **CTM 77** provides natural transparent sound quality. The cardioid pickup pattern minimizes annoying feedback (when used close to sound reinforcement speakers and monitors) and reduces the pickup of unwanted off-axis sounds. A transformerless electronic design provides optimum low frequency response and low distortion. An effective internal multistage pop filter minimizes wind and breath noise. The locking on/off switch provides excellent flexibility of use.

The **CTM 77** has a Flex-Form™ hardened steel grille screen that dramatically resists deformation while greatly reducing any risk of adverse performance caused by a bent or dented ball screen. This unique ability to retain its original shape assures that the **CTM 77** will maintain its attractive appearance.

The **CTM 77** features the exclusive (I.N.R.-3™) Impact Noise Rejection system. Our proprietary rubber shock mount isolates the transducer from the barrel, thus dramatically reducing cable, stand and handling noise. The need for any external shock mounting device is virtually eliminated.

The low-frequency response of the **CTM 77** may be enhanced by increasing or decreasing the distance from the sound source. This phenomenon is technically known as "proximity effect". Nominal or "flat" response is generated at a distance of 24 inches or more. However, as the distance to the sound source decreases, the bass sensitivity increases, providing a solid, robust character.

The **CTM 77** is supplied complete with a zippered vinyl protective pouch and a snap-in microphone swivel-mount.



CAD Quality

All **Astatic CTM 77** microphones are audio tested and inspected prior to shipment. Our absolute commitment to quality insures that **Astatic** microphones remain the **Best Value** in today's competitive industry.

Operation and Maintenance

The **Astatic CTM 77** is one of the finest instrumental and recording microphones available. Although it is extremely durable, it should be stored in the zippered pouch provided to protect it from dust and dirt when not in use.

If the front screen becomes soiled by dirt or residue, it may be cleaned using the following procedure. Unscrew the front screen assembly and remove the inside foam windscreen. Wash the foam windscreen using a mild detergent, and let dry thoroughly. Follow the same method for the grille screen. To clean the mike housing, use a cloth dampened with isopropyl alcohol.

Specifications

Generating Element:

Electret condenser (Phantom Powered)

Polar Pattern:

Unidirectional (Cardioid)

Frequency Response:

50 Hz - 18 kHz

Output Level:

Open Circuit Voltage:

-55 dB (0 dB = 1 volt per microbar)

Impedance:

500 ohms

Dynamic Range:

110 dB

Equivalent Noise Level:

Less than 22 dB, A weighted

Maximum SPL:

132 dB (1% THD, open circuit)

Powering:

Supply Voltage:

9 - 52 Vdc, positive pins 2 & 3 reverse polarity protected

Current Required:

Less than 5 mA over operating voltage range

Phasing

Positive pressure on diaphragm generates a positive voltage on pin 2 relative to pin 3

Grille Screen:

Hardened Steel Mesh

Case:

Steel and die cast zinc alloy

Finish:

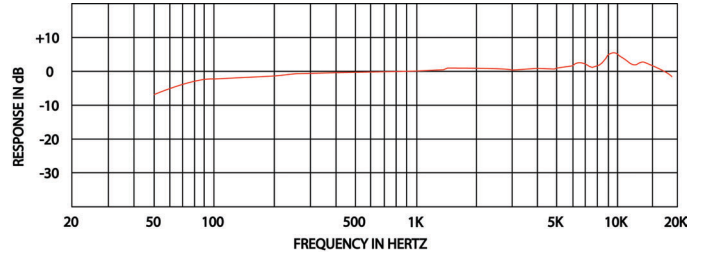
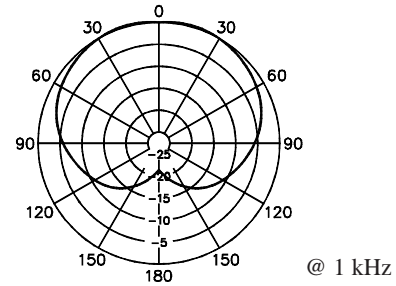
Durable soft feel, non-slip, midnight black.

Dimensions:

(See drawing on other side)



SPECIFICATIONS FOR CTM 77



Architects' and Engineers' Specification

The microphone shall be an electret condenser type, low impedance with wide-range frequency response, uniform from 50 Hz to 18 kHz. Output level at 1 kHz shall be -55 dB (0 dB = 1 volt per microbar). The polar response shall show a minimum of -15 dB at 180 degrees between 300 Hz and 1500 Hz. The transducer shall be isolated from handling noise and other mechanically generated vibration. The microphone case shall be steel and die-cast zinc alloy. The microphone shall have a length of 6 25/32" and a maximum diameter of 1 13/16". The microphone body shall be finished in a soft feel, non-slip midnight black. A snap-in clamp and a zippered vinyl protective pouch shall be supplied.

The Astatic Model CTM 77 is specified.

TWO-YEAR LIMITED WARRANTY

Astatic Microphones are warranted for two years to the original purchaser from the date of purchase by Omnitronics, LLC to be free from defects in material and workmanship. In event of such defect, product will be repaired or replaced at Omnitronics, LLC discretion with a new unit of equal or superior value. This will be at no charge if delivered prepaid to Omnitronics, LLC, together with the proof of purchase and a Return Authorization Number. The unit will be returned promptly prepaid. Warranty excludes exterior finish, appearance items, or malfunction due to abuse or operation under other than specified conditions. Consequential or incidental damages are excluded. Serial number of product and original purchaser's name must be registered immediately after purchase. Please use the attached registration form for this purpose.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

Note: No other warranty, written or oral is authorized by Omnitronics, LLC.

SHIPPING INSTRUCTIONS

Please call our customer service department at 440-593-1111 for a pre-approved return authorization number and carefully repack the unit and return it to: Omnitronics, LLC, 341 Harbor St., Conneaut, OH 44030

ALL RETURNS MUST HAVE A PRE-APPROVED RETURN AUTHORIZATION NUMBER OR IT WILL BE REFUSED. If outside the United States, contact your dealer or distributor for warranty details.