

ASTATIC

CTM 92 CARDIOID ELECTRET MICROPHONE

Description

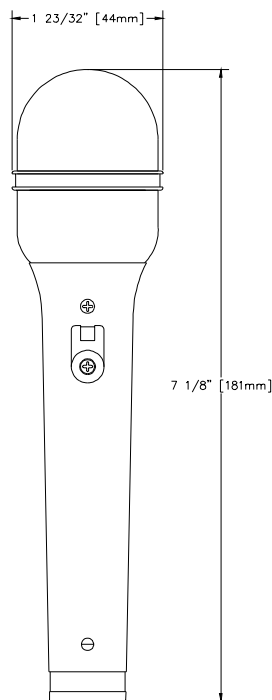
The **ASTATIC CTM 92** is a superior low-noise, electret condenser cardioid microphone designed for sound reinforcement and recording applications. The **CTM 92** provides the performance and features to satisfy today's most demanding professionals.

The wide and flat frequency response of the **CTM 92** provides unsurpassed 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. An effective internal multistage pop filter minimizes wind and breath noise.

The **CTM 92** 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 92** will maintain its attractive appearance.

The **CTM 92's** most innovative design feature is the **ASTATIC** exclusive (**I.N.R.™**) **Impact Noise Rejection** system. Our proprietary (developed, compounded and formed in Conneaut, Ohio) 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 92** 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 92** includes a locking on/off switch and is supplied complete with a zippered vinyl protective pouch and a snap-in microphone swivel-mount.



Made with pride in Conneaut, Ohio U.S.A.



ASTATIC Quality

All **CTM 92** 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 **CTM 92** is one of the finest sound reinforcement and recording microphones available. Although it is incredibly 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 FOR CTM 92

Specifications

Generating Element:

Electret Condenser (Phantom Powered)

Polar Pattern:

Unidirectional (Cardioid)

Frequency Response:

40 Hz - 20 kHz

Output Level:

Power Level:

-48 dB (0 dB = 1 mW per 10 microbars)

Open Circuit Voltage:

-68 dB (0 dB = 1 volt per microbar)

4 mV/Pascal

Impedance:

Low (150 ohms nominal)

Dynamic Range:

100 dB

Equivalent Noise Level:

Less than 30 dB, A weighted

Maximum SPL:

130 dB (1% THD, open circuit)

Powering:

Supply Voltage:

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

Current Required:

Less than 1.5 mA over operating voltage range

Phasing

Positive Pressure on Diaphragm generates a positive voltage on pin 2 relative to pin 3

Shock Mounting System:

I.N.R.™ (Impact Noise Rejection - proprietary rubber compound)

Switch:

Low profile, lockable

Grille Screen:

Woven Flex-Form™ (hardened steel)

Case:

Die Cast Zinc Alloy

Finish:

Durable textured urethane Gunmetal black

Dimensions:

(See drawing on other side)

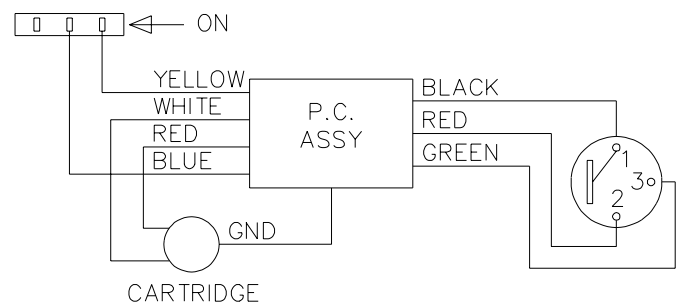
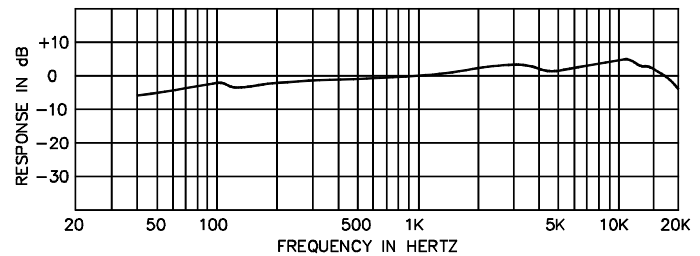
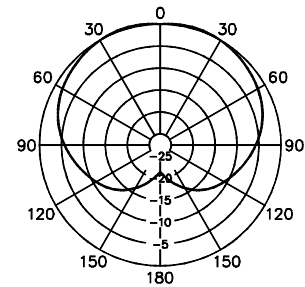
NET Weight:

184 grams (6.5 oz.)

Architects' and Engineers' Specification

The microphone shall be an electret condenser type, low impedance with wide-range frequency response, uniform from 40 Hz to 20 kHz having a lockable on/off switch. Output level at 1 kHz shall be -48 dB (0 dB = 1 mW/10 microbars). The polar response shall show a minimum of -15 dB at 180 degrees between 150 Hz and 6 kHz. The transducer shall be isolated from handling noise and other mechanically generated vibration. The woven steel screen, when attached to the microphone, shall withstand a drop of 6 feet to a wooden floor without any deformation. The microphone case shall be die-cast zinc alloy. The microphone shall have a length of $7 \frac{1}{8} \pm 1/32$ " and a maximum diameter of $1 \frac{23}{32} \pm 1/64$ ". The microphone shall be finished in a urethane non-reflecting black. A snap-in clamp and a zippered vinyl protective pouch shall be supplied.

The **ASTATIC Model CTM 92** is specified.



User Techniques and Applications

When used for distant stereo recordings, two **CTM 92** units may be used in conjunction with the **ASTATIC** model 40-309 twin microphone mount in several ways. For excellent monaural, as well as stereo reproduction, the X-Y stereo recording technique is an excellent choice. Utilizing the **ASTATIC** model 40-309 Twin Microphone Mount and two **CTM 92** microphones, angle the units toward each other until they touch front grille screens. To make recordings having better stereo imaging, separate the two microphone heads by 17 cm (6 3/4"), angling the front screens apart by 110 degrees.

TWO-YEAR LIMITED WARRANTY

CTI Audio, Inc. ("ASTATIC") hereby warrants that this product will be free of defects in material and workmanship for a period of two years from the date of purchase. In the unlikely event a defect occurs ASTATIC will, at its option, either repair or replace with a new unit of equal or greater value. You should retain proof of purchase to validate the purchase date and return it with any warranty claim. Return warranty claims carefully packed, insured and prepaid to the Service Department at the address listed below.

This warranty excludes exterior finish or appearance, damage from abuse, misuse of the product, use contrary to ASTATIC's instructions or unauthorized repair. All implied warranties or merchantability or fitness for a particular purpose are hereby disclaimed and ASTATIC hereby disclaims liability for incidental, special or consequential damages resulting from the use or unavailability of this product.

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 CTI Audio, Inc.