

[Manuals.plus](#) /

› [Turnstile Audio](#) /

› Turnstile Audio Concourse Series TAC300 Cardioid Condenser Microphone User Manual

Turnstile Audio TAC300

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Model: TAC300

1. INTRODUCTION

Thank you for choosing the Turnstile Audio Concourse Series TAC300 Cardioid Condenser Microphone. This microphone is designed to provide pristine audio capture for vocal recording, podcasting, and streaming applications. Its robust construction and versatile features make it suitable for both professional and home studio environments.

The TAC300 features a wide 20Hz-20kHz frequency range for detailed sound, an equivalent noise level of only 15dB for clean recordings, and an optimized cardioid polar pattern to focus on your sound source while minimizing ambient noise. It includes a -10dB pad and a 100Hz low-cut roll-off for dynamic range control and rumble reduction.

2. WHAT'S IN THE BOX

Please inspect the package contents to ensure all items are present and in good condition:

- Turnstile Audio Concourse Series TAC300 Cardioid Condenser Microphone
- Microphone Clip
- Soft Carrying Case

WHAT'S IN THE BOX?

- Turnstile Audio TAC300 Microphone
- Mic Clip
- Soft Carrying Case



Image: The Turnstile Audio TAC300 microphone, mic clip, and soft carrying case, as typically found in the product packaging.

3. SETUP

3.1 Mounting the Microphone

1. Attach the included microphone clip to a standard microphone stand or boom arm.
2. Securely screw the TAC300 microphone into the microphone clip. Ensure it is firmly attached to prevent accidental drops.

3.2 Connecting the Microphone

The TAC300 is a condenser microphone and requires 48V phantom power to operate. It connects via a standard XLR cable.

1. Connect one end of a balanced XLR cable (not included) to the XLR output port at the base of the TAC300 microphone.
2. Connect the other end of the XLR cable to an audio interface, mixer, or preamplifier that provides 48V phantom power.
3. Activate the 48V phantom power on your audio interface or mixer. The microphone will not function without it.



Image: The TAC300 microphone mounted on a boom arm and connected with an XLR cable, ready for use.

4. OPERATING THE MICROPHONE

4.1 Polar Pattern: Cardioid

The TAC300 features a cardioid polar pattern, meaning it is most sensitive to sound coming from the front of the microphone and rejects sound from the sides and rear. This is ideal for isolating a single sound source, such as a vocalist or instrument, and minimizing room reflections or background noise.

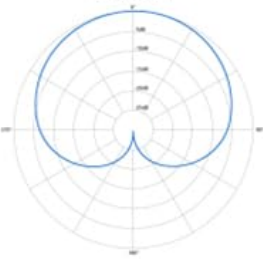
Polar Pattern	Direction of Sound	Application	Miking Technique
Cardioid 	Sound is picked up from the front of the microphone and not the back or sides	This works best for podcasts, live streaming, voice-overs, vocals, and single instruments	Close Miking or single source miking with the Cardioid pattern

Image: A graphical representation of the cardioid polar pattern, showing maximum sensitivity at the front and rejection at the rear.

4.2 Optimal Placement

For best results, position the front of the microphone (where the grille faces) directly towards your sound source. Experiment with distance to achieve the desired tone and presence. Closer proximity generally results in a fuller sound due to the proximity effect.

4.3 -10dB Pad Switch

The TAC300 is equipped with a -10dB pad switch. This switch reduces the microphone's output level by 10 decibels. Use this feature when recording very loud sound sources (e.g., loud vocals, guitar amplifiers, drums) to prevent input clipping or distortion at your audio interface or mixer.

4.4 100Hz Low-Cut Filter Switch

A 100Hz low-cut (high-pass) filter switch is provided to reduce unwanted low-frequency noise. Engage this switch to minimize rumble from air conditioning, foot traffic, or proximity effect build-up, which can muddy your recordings.

5. MAINTENANCE

5.1 Cleaning

To maintain the microphone's appearance and performance, wipe the exterior with a soft, dry cloth. Do not use harsh chemicals, solvents, or abrasive cleaners, as these can damage the finish or internal components. Avoid getting moisture into the microphone grille.

5.2 Storage

When not in use, store the TAC300 in its soft carrying case to protect it from dust, moisture, and physical damage. Avoid storing the microphone in environments with extreme temperatures or high humidity.



Image: The soft carrying case provided with the TAC300 microphone, designed for protection and transport.

6. TROUBLESHOOTING

If you encounter issues with your TAC300 microphone, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound Output	No 48V phantom power; Faulty XLR cable; Incorrect input selection on interface/mixer.	Ensure 48V phantom power is active. Test with a different XLR cable. Verify correct input is selected and gain is turned up.
Distorted Sound	Input signal too hot; -10dB pad not engaged for loud sources.	Reduce gain on your audio interface/mixer. Engage the -10dB pad switch on the microphone.
Excessive Background Noise/Rumble	Room acoustics; Proximity effect; Low-frequency interference.	Engage the 100Hz low-cut filter switch. Adjust microphone placement to minimize room noise.
Intermittent Sound	Loose cable connection; Damaged cable.	Check all cable connections. Try a different XLR cable.

7. SPECIFICATIONS

The following are the technical specifications for the Turnstile Audio Concourse Series TAC300 Cardioid Condenser Microphone:

Feature	Specification
Brand	Turnstile Audio
Model Number	TAC300
Connectivity Technology	Wired (XLR)
Polar Pattern	Cardioid (Unidirectional)
Microphone Form Factor	Large Diaphragm
Power Source	Corded Electric (48V Phantom Power)
Frequency Response	20Hz-20kHz (General range, 15 KHz listed in some specs)
Audible Noise (Equivalent Noise Level)	15 Decibels
Audio Sensitivity	10 Decibels
Special Features	-10dB Pad, 100Hz Low-Cut Roll-Off
Item Weight	2.5 Pounds
Item Dimensions (L x W x H)	9.1 x 5.6 x 2.76 inches
Included Components	Microphone, Mic Clip, Soft Carrying Case

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Turnstile Audio Concourse Series TAC300 Cardioid Condenser Microphone comes with a **1 Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Turnstile Audio website.

8.2 Customer Support

If you have any questions, require technical assistance, or need to initiate a warranty claim, please contact Turnstile Audio customer support through their official website or the contact information provided in your product documentation.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

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