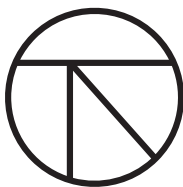


# TURNSTILE AUDIO



**Concourse Series**

**TAC700**

**Multi-Pattern  
Condenser Microphone**



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## ⚠ Important Safety Instructions

- Please read, follow, and keep all directions.
- Do not expose the microphone to extreme heat or cold.
- Do not expose the microphone to damp or wet conditions such as rain.
- Do not expose the microphone to excessive foreign particles as dirt or dust.
- Do not use any harsh chemical solvent to clean the microphone.  
Do not attempt to disassemble the microphone as Turnstile Audio is not responsible for any damage caused.
- Do not attempt to modify the microphone as Turnstile Audio is not responsible for any damage caused by modifications.
- Keep the microphone in the box when it is not use.
- To clean the microphone use a dry cloth, do not use a damp cloth.

Exposure to extremely high noise levels may cause permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a period of time. The U.S. Government’s Occupational Safety and Health Administration (OSHA) has specified the permissible noise level exposures shown in the chart. According to OSHA, any exposure in excess of these permissible limits could result in some hearing loss:

### Noise Exposure Limits

Exposure Time	NIOSH	OSHA	
	dB SPL	dB SPL	
8 hrs	85	85	NIOSH The National Institute for Occupational Safety and Health.
4 hrs	88	90	
2 hrs	91	95	OSHA Occupational Safety and Health Administration.
1 hr	94	100	
30 min	97	105	dB SPL Decibel sound pressure level.
15 min	100	110	
7.5 min	103	115	
3.75 min	106	120	
> 2 min	109	-	
> 1 min	111	-	

## Introduction

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The Turnstile Audio Concourse Series TAC700 Condenser Microphone boasts a multi-polar pattern microphone that has a clean and smooth sound with options to give you flexibility for any recording scenario. It is perfect for broadcast, vocal recording, plus instrumental recordings.

The extra low handling noise results in a transparent sound profile that is very versatile. For tone control, the 10dB pad can help prevent the microphone from overloading and the low-cut switch can help reduce excessive rumble from audio sources.

The included shock mount isolates the microphone from potential mic stand noise. To help keep the microphone safe, the TAC700 comes with a soft case for transport.

## Included Accessories

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- Mounting Clip
- Soft Carrying Case

## Microphone Controls

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1. **Low Cut Filter:** When engaged the low cut filter will reduce frequencies 100Hz and below from being passed through the mic's capsule. This helps with excess rumble and bass heavy audio sources.
2. **PAD:** When engaged the incoming audio signals will be reduced by 10dB. This helps with audio sources that are too loud and overload the microphone.
3. **PATTERN:** 3 different pickup patterns are available with a quick turn of this knob (Cardioid, Omni, & Figure-8). 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. Figure 8: Sound is picked up from the front and rear of the microphone and not the sides. This works best for interviews and vocal/instrument duets. Omni-directional: Sound is picked up equally from every direction in 360 degrees, This works best for conference calls and meetings.

## Troubleshooting Tips

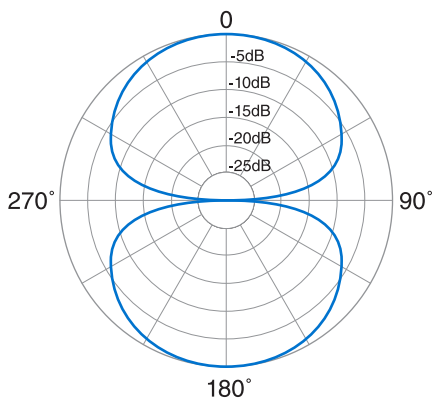
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Common Problem: No Sound. Try one of the troubleshooting tips.

1. Verify that 48V phantom power is available on the audio device.
2. Make sure to use an XLR connection on the audio device, 1/4" inputs do not pass phantom power.
3. Test the cables and connections, then test the audio device.

## How To Record: Figure 8 Polar Pattern

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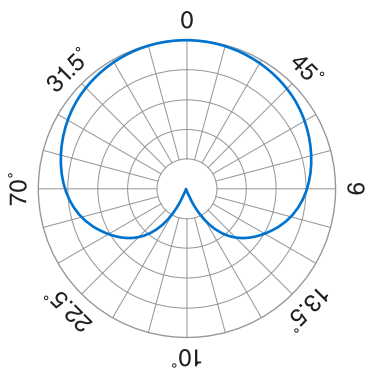
**Figure 8**

The sound is picked up from the front and rear of the microphone and not the sides. This works best for interviews and vocal/instrument duets, applications. Start by positioning the microphone in front of you to pickup your voice or instrument then have the other person go to the opposite side of the microphone so they looking directing at you.

Speak directly into the mic with about 1-6 inches (2.5 - 15 cm) space between you and the microphone. Have the other person do the same. The spacing will be determined by how loud you are talking into the microphone. Make additional gain adjustments as needed.

## How To Record: Cardioid Pattern

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### 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.

There are two traditional ways to record with this polar pattern: close miking (near) and distant miking (far).

For podcast, voiceover, vocal and instrument applications, start by positioning the microphone in front of you and close to your face or instrument.

Speak or play directly into the mic with about 1-6 inches (2.5 - 15 cm) space between you and the microphone. The spacing will be determined by how loud you talk or play into the microphone.

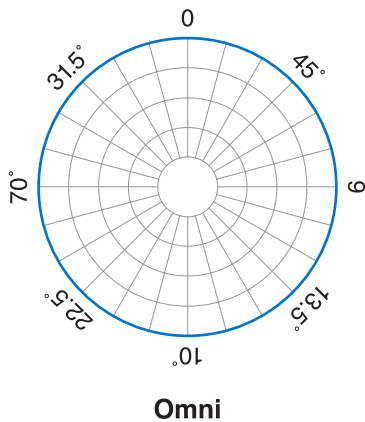
Note: Speaking, singing, or playing closer to the microphone results in more bass response, like voices on a typical radio broadcast. Make additional gain adjustments if necessary.

When dealing with the sound source that is further away, such as in a live streaming environment with a screen or distance miking an instrument.

Point the microphone directly at the sound source with the placement being 6 to 18 inches (15 to 45 cm) away. Make additional gain adjustments.

# How To Record: Omni Pattern

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Sound is picked up equally from every direction in 360 degrees, This works best for conference calls and meetings applications. Place the microphone in the center of the sound source with the placement being 6 to 18 inches (15 to 45 cm) away. Make additional gain adjustments as needed.

## Specifications

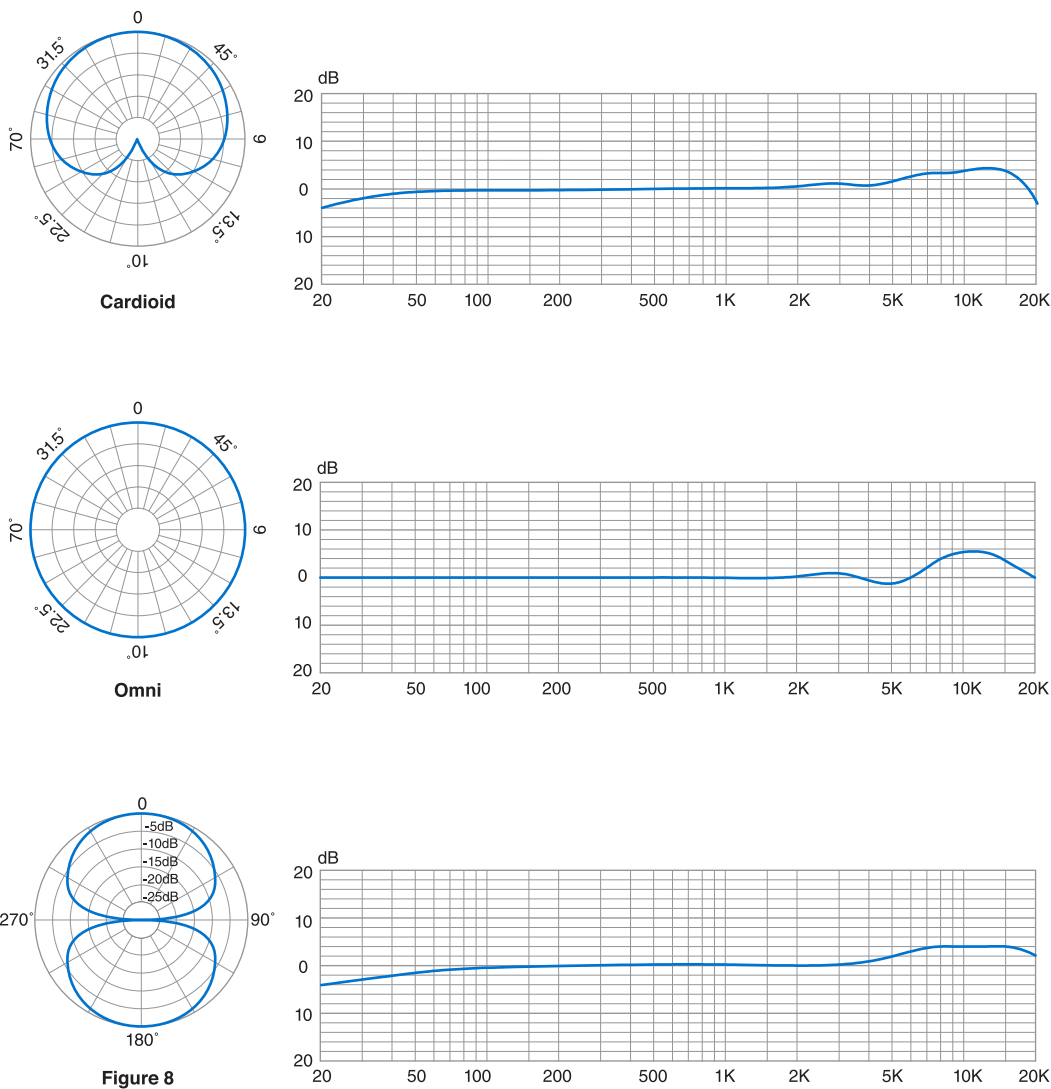
Polar Pattern	Omni, Cardioid, Figure 8
Frequency Range	20Hz~20kHz
Sensitivity	-42dB
Output Impedance (ohm)	≤ 200
Max SPL (1000Hz)	149dB
Equivalent Noise Level	20dB
Power Requirements	48V DC phantom power
Pad	-10dB
Low Cut Roll Off	100Hz
Size	Ø 52×140mm

## Customer Service

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Turnstile Audio  
42 West 18th Street  
New York, NY 10011  
1 (800) 223-2500

# Frequency Response & Polar Pattern



Note: Specifications are subject to change.



## Turnstile Audio 2 Year Limited Warranty

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Turnstile Audio warrants to the original purchaser that your Turnstile Audio product shall be free from defects in material and workmanship for the period of two (2) years from the date of purchase (or delivery as may be required in certain jurisdictions), or thirty (30) days after replacement, whichever comes later.

Turnstile Audio's entire liability and your exclusive remedy for any breach of warranty shall be, at Turnstile Audio's option, to repair or replace the hardware, provided that the hardware is returned to the point of purchase or such other place as Turnstile Audio may direct with a copy of the sales receipt or dated itemized receipt.

Turnstile Audio may, at its option, replace your product, offer to provide a functionally equivalent product, or repair any product with new, refurbished or used parts as long as such parts are in compliance with the product's technical specifications.

Any replacement hardware product will be warranted for the remainder of the original warranty period or thirty (30) days, whichever is longer, or for any additional period of time that may be applicable in your jurisdiction.

If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover problems or damage resulting from accident, abuse, misapplication, or any unauthorized repair, modification or disassembly, improper operation or maintenance, normal wear and tear, or usage not in accordance with product instructions or connection to improper voltage supply, use of consumables, such as replacement batteries, not supplied by Turnstile Audio, except where such restriction is prohibited by applicable law.

Except where prohibited by applicable law, this warranty is nontransferable and is limited to the original purchaser and the country in which the product was purchased.

This warranty gives you specific legal rights, and you may also have other rights, including a longer warranty duration that may vary under local laws.

To start a warranty claim contact the Turnstile Audio Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Turnstile Audio, along with the RMA number and proof of purchase.

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