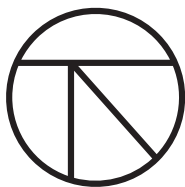


TURNSTILEAUDIO



Platform Series

TAP4000USB

USB 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:

This device complies with part 5 of the FCC rules for the U.S. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Noise Exposure Limits

Exposure Time	NIOSH	OSHA
	dB SPL	dB SPL
8 hrs	85	85
4 hrs	88	90
2 hrs	91	95
1 hr	94	100
30 min	97	105
15 min	100	110
7.5 min	103	115
3.75 min	106	120
> 2 min	109	-
> 1 min	111	-

NIOSH The National Institute for Occupational Safety and Health.

OSHA Occupational Safety and Health Administration.

dB SPL Decibel sound pressure level.

Introduction

The Turnstile Audio Platform Series TAP400USB is a plug-and-play USB condenser microphone that gives you flexibility for your recording environment. The microphone is the ideal choice for podcasting on-the-go, live streaming, and much, much more.

It can record up to 16bit/ 48kHz crystal clear audio. Built-in controls on the mic allow you to mute, adjust incoming audio signal, and monitor the microphone's input signal with no delay (latency). The included stand makes it easy to find the ideal recording position.

Microphone Controls, Inputs & Outputs

Microphone Controls:

Built In Mute Switch: Mutes the microphone.

Gain (Level) Knob: Adjusts the amount of incoming audio signal.

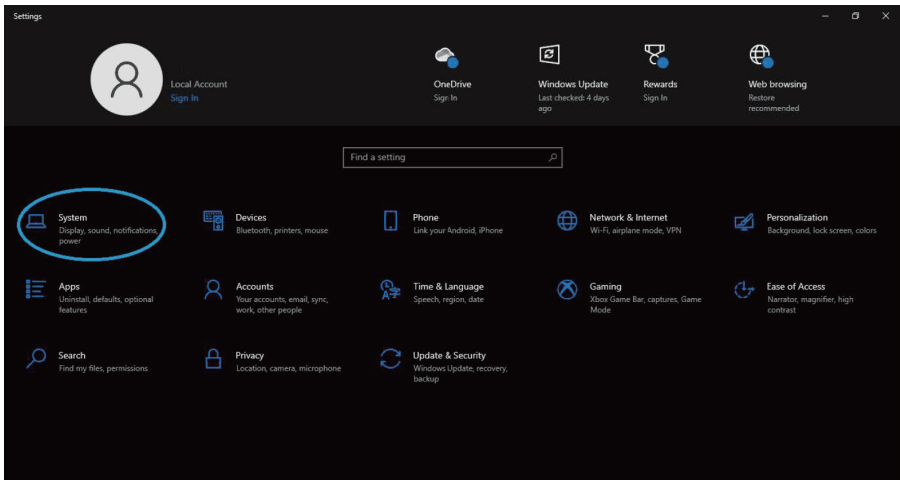
Headphone Monitor Knob: Monitor the microphone's input signal with no delay (latency).

How To Setup the Microphone

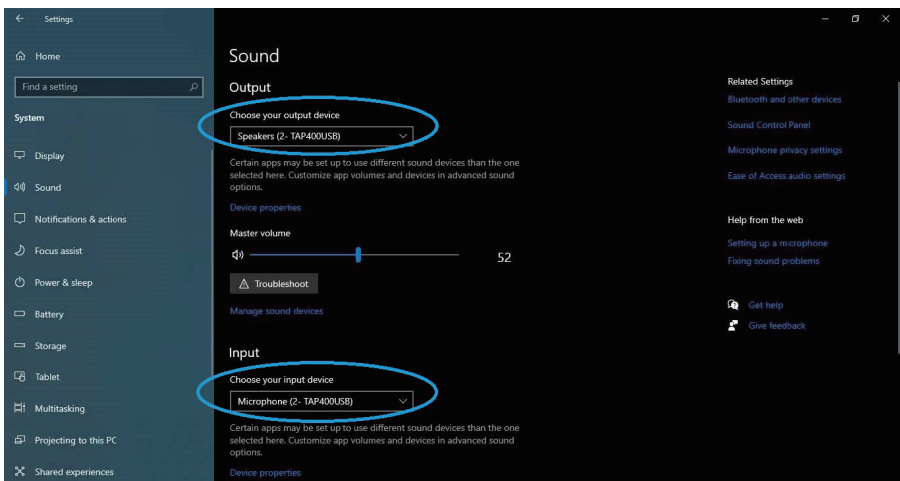
1. First open stand legs.
2. Screw on the Mic Clip to the Stand.
3. Slide the microphone onto the Mic Clip.

Windows 10 Setup Example

1. Use the provided USB C to USB A cable to connect the microphone to the computer. Connect the USB C end to the microphone and the USB A end to the PC computer.
2. Click the Start (Win10) menu and select the Settings Panel and select System.



3. In the Sound Panel, select the TAP400USB for both the Output and Input device.

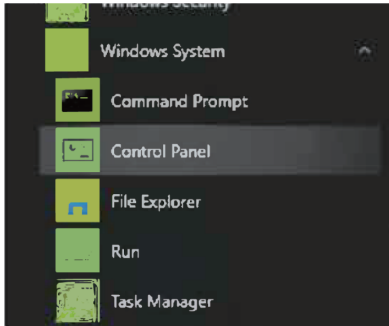


4. Open up your Podcasting, live streaming, video conferencing or digital audio workstation (DAW) software and select the TAP400USB as your Input and Output.

Note: Refer to your software's manual on how to open new projects/sessions, create tracks, selecting the audio/playback device.

How to set the direct monitor function (In Case Of Windows 7/10)

1. Open the Control Panel.

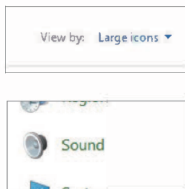


Left-click the Windows start button and select the Control Panel inside the "Windows System" folder.

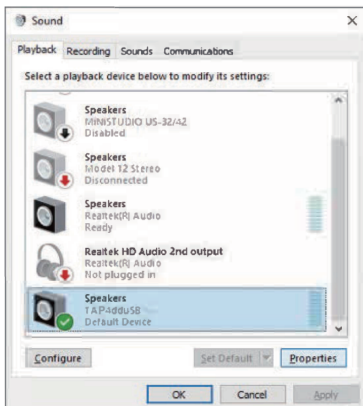
2. Double-click "Sound" in the control panel to open sound settings.

NOTE

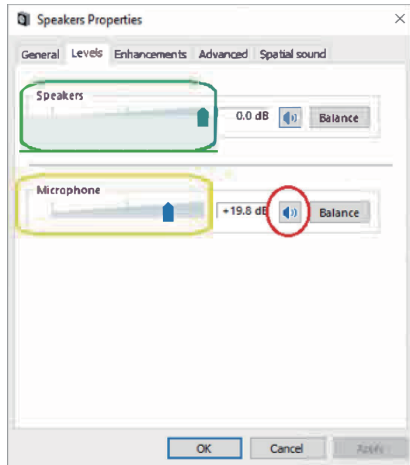
You can change the display view to "Large icons" to display the Sound icon.



Click the Sound icon to open the Sound Control Panel.



3. On the Playback tab, select "Speakers (TAP400USB)" and open the Properties window. Click on the Levels tab.



Make sure that the speaker icon (marked in red in the image above) is active. In case it's disabled, it will be displayed with an X and you will not hear the direct monitor sound.



Click on the speaker icon to enable it.

Even if the speaker icon is active, if the volume level of the direct monitor is low, you will have difficulties hearing the mic sound. In that case, use the mouse to move the mic slide bar (marked in yellow) and adjust the mic level. To adjust the entire volume, including the direct monitor volume, adjust the speaker slide bar (marked in green).

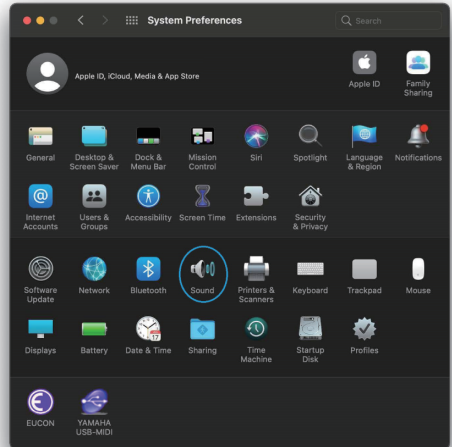
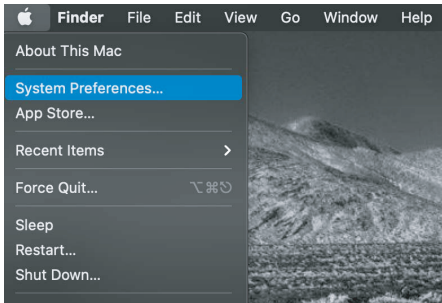
NOTE

You can adjust the computer's playback and the direct monitor volume as a whole with the unit's volume knob. We recommend adjusting the balance of the direct monitor and the computer's volume separately in the computer first so that you can easily adjust the entire volume during live streams, etc. with the unit's volume knob only.

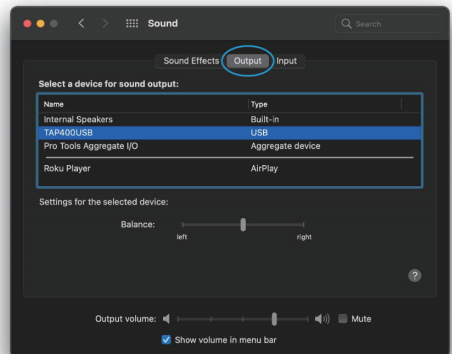
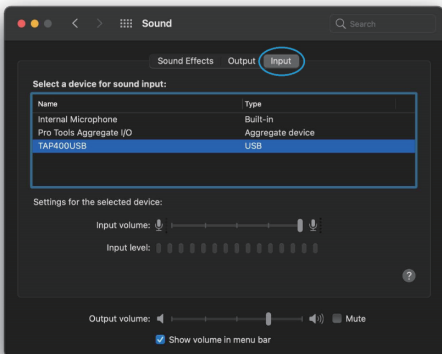
4. Click on the OK button once you're finished with the configuration.

Mac Setup Example

1. Use the provided USB C to USB A cable to connect the microphone to the computer. Connect the USB C end to the microphone and the USB A end to the Mac computer.
2. To select the TAP400USB as your audio input, first, open your System Preferences.
3. Click on Sound icon to open the Sound preferences panel.



4. Click the Input tab and select the TAP400USB as the device for sound input.
5. Click the Output tab and select the TAP400USB as the device for sound output.

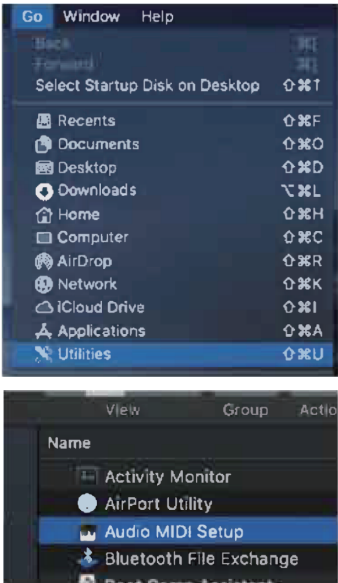


6. Open up your Podcasting, live streaming, video conferencing or digital audio workstation (DAW) software and select the TAP400USB as your Input and Output.

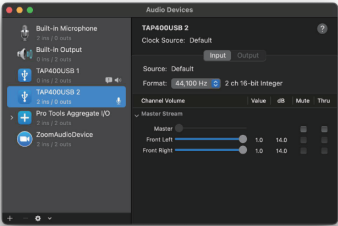
Note: Refer to your software's manual on how to open new projects/sessions, create tracks, selecting the audio/playback device.

In case of macOS

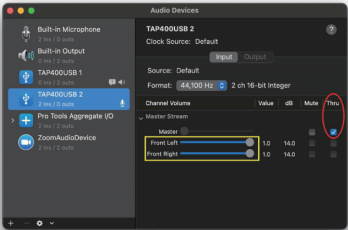
1. From the Finder menu press Go-> Utilities-> Audio MIDI Setup.



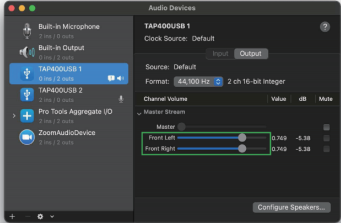
2. Open the Audio Devices window and select "TAP400USB 2" and then click on the Input tab.



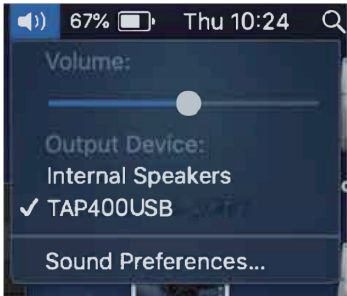
3. Putting a check in the THRU setting box (circled red) will enable direct monitoring. The sliders shown below (outlined yellow) adjust the audio inputs. They do not affect the direct monitoring volume.



4. To adjust the direct monitor volume and the computer's playback volume select "TAP400USB 1". Click on the Output tab, and move the sliders (mark in green).



The slider opened from the speaker icon in the menu bar can also be used to adjust the overall monitoring volume of direct monitoring and Mac playback signals.



To adjust the entire volume during live streams, etc. we recommend using the volume knob on the unit.

How To Record with the TAP400USB

How To Record with a Cardioid Polar Pattern Microphone

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).

Near:

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.

Far:

When recording a sound source positioned further away (such as in a gaming environment with a screen), 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. Because the TAP400 is highly directional, ensure that the microphone is pointed directly at the source. If possible, experiment with mic placement to find where it sounds best.

System Requirements

PC

WINDOWS XP PRO, XP HOME, VISTA, 7, 8, 10

USB 1.1 / 2.0

(64 MB RAM MINIMUM)

MAC

MAC OSX (10x.. or Higher)

USB 1.1/ 2.0

(64 MB RAM MINIMUM)

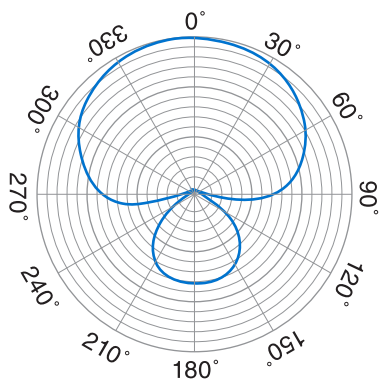
The Model USB microphone is a class compliant device and does not a decided driver installed to use it.

Specifications

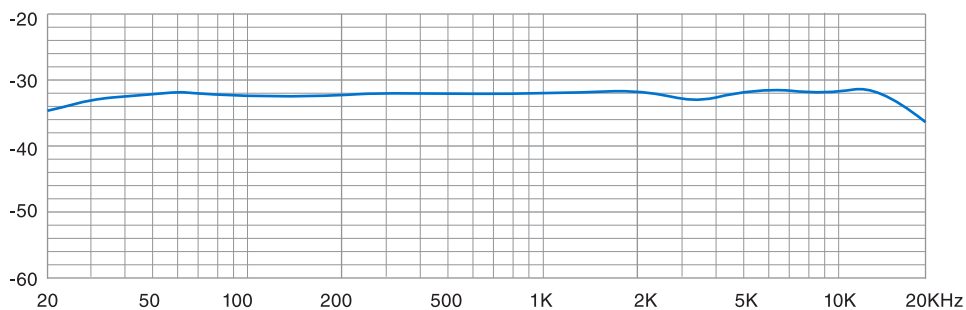
Microphone Capsule Type	14mm condenser
Polar Pattern	Cardioid
Frequency Response	30Hz~18kHz
Sensitivity	-32dB (0dB = 1V/Pa at 1kHz)
Max SPL	130dB (at 1kHz 1% T.H.D)
Sample Bit Rate	16Bit
Input Sample Rate Options (ADC)	8, 11.025, 16, 22.05, 32, 44.1, 48kHz
Output Sample Rate Options DAC	32, 44.1, 48kHz
Headphone Output Connection	3.5mm (1/8th)
Headphone Output Power	400mW
Input Signal to Noise Ratio	89dB (THD+N = 0.01%)
Dynamic Range	89dB
Output Signal to Noise Ratio	96dB (THD+N = 0.005%)
Dynamic Range	93dB

Included Accessories

- USB C to USB A Cable
- Mic Clip
- Desktop Mic Stand



Uni-directional
(at 1kHz)



Frequency Response Graph

Customer Service

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

Turnstile Audio 2 Year Limited Warranty

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.

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