

# AT2020USB-X

Cardioid Condenser USB Microphone

# **User Manual**

English

# **Safety precautions**

Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

# **Cautions for the product**

- Do not subject the product to strong impact to avoid malfunction.
- Do not disassemble, modify or attempt to repair the product.
- Do not handle the product with wet hands to avoid electric shock or injury.
- Do not store the product under direct sunlight, near heating devices or in a hot, humid or dusty place.

## For customers in the USA

### FCC Notice

#### Warning

This device complies with Part 15 of the FCC Rules. 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.

#### Caution

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Contact

Responsible Company: Audio-Technica U.S., Inc. Address: 1221 Commerce Drive, Stow, Ohio 44224, USA Tel: 330-686-2600

# For customers in Canada

## **ISED** statement

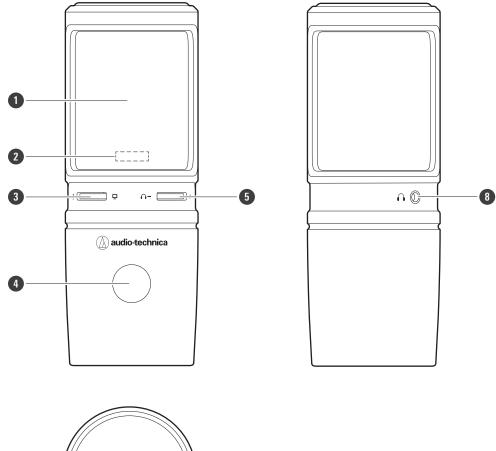
CAN ICES-3 (B)/NMB-3(B)

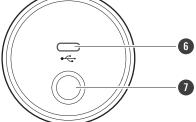
# Notes on use

- Be sure to read the connected device's user manual before use.
- When the product is used for a long time, the product may become discolored due to ultraviolet light (especially direct sunlight) and wear.
- Use the included USB cable for connection.
- Make sure to hold the plug when connecting and disconnecting the USB cable. The USB cable may become severed or an accident may occur if you pull on the USB cable itself.
- When using the USB cable, be careful not to twist it to prevent damage to the USB cable.
- Do not wind the USB cable at the base of the plug to prevent a disconnection.
- Do not use a USB hub or USB extension cable.
- When plugging the USB cable into the microphone and the connected device, check that the connector is facing in the correct direction before inserting it straight. Inserting the plug diagonally may cause a malfunction.
- When not in use, disconnect the USB cable from the product.
- Make sure that no foreign matter enters inside the mesh part of the product. Performance may be degraded.
- Depending on the surface treatment of the table on which the product is installed, the desk stand may leave marks on the table.
- For important recordings, perform a trial recording beforehand to make sure that the sound is recorded correctly.
- Operation is not guaranteed with all computers.
- Operation cannot be guaranteed in a home-built computer, personal OS upgrade, or multi-boot environment.
- Audio-Technica will not be liable in any way for any loss or damage to software or data connected to the product.

# **Part names and functions**

## Microphone





### 1 Microphone

#### 2 Mute indicator lamp

Lights blue when audio input is enabled. It lights red when the microphone is muted.

#### **3** Mix control dial

Adjusts the balance of the volume level of the sound coming from the computer and the monitored volume level of the audio being input (voice).



#### 4 Touch sensor for mute

Turns the muting of the microphone on/off.



#### **5** Headphone level control dial

Adjusts volume of headphone output.

#### **6** USB terminal (USB Type-C<sup>™</sup>)

Use to connect the included USB cable.

#### Part names and functions

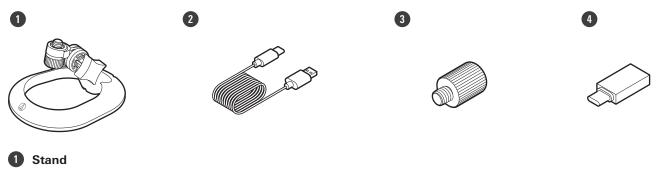


**1** 3/8" Stand mounting screw hole

Use when attaching the stand.

8 Headphone jack (3.5 mm (1/8") stereo mini-jack) Use to connect headphones.

## **Included accessories**



**2** USB cable (USB Type-C to USB Type-A)

**3** 3/8"-16 to 5/8"-27 threaded adapter

**4** USB conversion adapter (USB Type-A to USB Type-C)

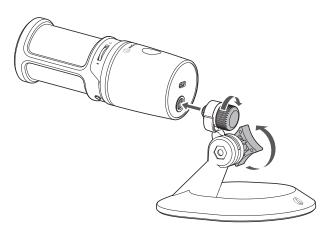
# Setting up the product

For best results, set up the product so that it is facing the sound source. When using it to record voices, place it directly in front of the speaker/singer. Do the same thing when recording sound such as acoustic guitar, drums, or piano. Before using the product, try setting it up in various positions, to discover how best to record sound in your current environment.

## Attaching the stand

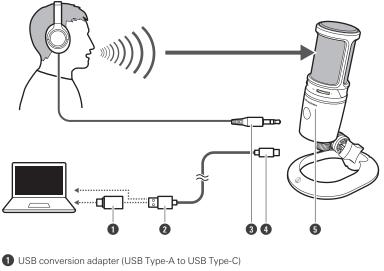
You can use the stand to place the product on a table or a similar surface.

**1** Attach the stand to the mounting screw hole on the product, and then turn the screw to secure the parts. Adjust the angle of the product, and then turn the grip of the stand to tighten it.



• Use the included 3/8"-16 to 5/8"-27 threaded adapter when installing the product on a commercially available microphone stand.

# **Connection procedure**



- 2 USB Type-A
- 3 Headphone input plug
- 4 USB Type-C
- 5 Audio-Technica logo

#### **1** Connect the USB cable (USB Type-C side) to the USB terminal on the underside of the product.

#### 2 Connect the USB cable (USB Type-A side) to the computer.

- If necessary, use the USB conversion adapter (USB Type-A to USB Type-C) depending on the USB terminal of the computer you are using. Use the USB conversion adapter for the USB terminal of the computer side. Do not connect it to the USB terminal of the product side.
- If you are using Windows, refer to "Computer settings (Windows)" (p. 8) to do the settings.
- If you are using Mac, refer to "Computer settings (macOS)" (p. 39) to do the settings.
- Make sure that the mute indicator lamp lights blue (ready for audio input).

**3** If you are using headphones, connect the headphones to the headphone jack.

# For Windows 11

Use the USB cable to connect the product to a computer.

### **2** Confirm that the mute indicator lamp on the product lights.

• The computer automatically recognizes the product and the driver is installed on the computer. In the lower right part of the screen, a message appears indicating that new hardware has been found or a notification appears indicating that the driver software has been installed.

### **3** Click "Start Menu" and select "Settings".

#### 4 Select "System".

← Settings		- 0 ×
A user1 Local Account	System	
Find a setting O	To Be Filled By O.E.M. Rename View benefits • OneDrive View benefits • Sign in • Sign in	<b>s Update</b> red: 6 hours ago
System		
<ul> <li>Bluetooth &amp; devices</li> <li>Network &amp; internet</li> </ul>	Display Monitors, brightness, night light, display profile	>
Personalization	Sound     Volume levels, output, input, sound devices	>
Apps     Accounts	Notifications     Alerts from apps and system	>
<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	D Focus assist Notifications, automatic rules	>
<ul> <li>Accessibility</li> <li>Privacy &amp; security</li> </ul>	U Seep, battery usage, battery saver	>
Windows Update	Storage space, drives, configuration rules	>
	Multitasking     Snap windows, desktops, task switching	>
	O Activation Activation state, subscriptions, product key	>
	Troubleshoot Recommended troubleshooters, preferences, history	>
	Recovery Reset, advanced startup, go back	>

### 5 Select "Sound".

← Settings		- 0 ×
R user1 Local Account	System	
Find a setting P		dows Update checked: 6 hours ago
System		
<ul> <li>Bluetooth &amp; devices</li> <li>Network &amp; internet</li> </ul>	Display Monitors, brightness, night light, display profile	>
<ul> <li>Personalization</li> </ul>	(1) Sound Volume levels, output, input, sound devices	>
📑 Apps		
Accounts	Notifications     Alerts from apps and system	>
<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	D Focus assist Notifications, automatic rules	>
<ul> <li>Accessibility</li> <li>Privacy &amp; security</li> </ul>	U Power Sleep, battery usage, battery saver	>
<ul> <li>Windows Update</li> </ul>	Storage Storage space, drives, configuration rules	>
	Multitasking     Snap windows, desktops, task switching	>
	Activation     Activation state, subscriptions, product key	>
	Traubleshoot     Recommended traubleshooters, preferences, history	>
	Exect, advanced startup, go back	>

6

#### Under "Output" and "Input", confirm that the product is selected.

- If a device other than the product is being used as the output device, select this other device from "Choose where to play sound".
- If you are using commercially available recording software to record audio, refer to "Microphone privacy settings" (p. 10) to configure the settings.

Q user1 Local Account	System > Sound	
	Output	
nd a setting D	Choose where to play sound Apps might have their own settings	Headphones 🖌
System	Headphones	)
Bluetooth & devices	AT2020USB-X	
Network & internet	Pair a new output device	Add device
Personalization	Volume	46
Apps	volume	N/ 40
Accounts	Mono audio	Off
Time & language	Combine left and right audio channels into one	
Gaming	Input	
Accessibility	Choose a device for speaking or recording	Microphone
Privacy & security	Apps might have their own settings	
Windows Update	Microphone AT2020USB-X	>
	Pair a new input device	Add device
	Volume	Q 50
	Advanced	
	Troubleshoot common sound problems	Output devices Input devices

## Microphone privacy settings

If you are using commercially available recording software, check the microphone privacy settings.

Click "Start Menu" and select "Settings".

2 Select "Privacy & security".

← :	Settings		-		×
2	user1 Local Account	Priv	acy & security		
			Personal decidinary, works in your decidinary		
Find	a setting $ ho$	4	Diagnostics & feedback Diagnostic data, inking and typing data, tailored experiences, feedback frequency	>	
8	System Bluetooth & devices	Ð	Activity history Options for getting more from your activity history across devices and accounts	>	
•	Network & internet Personalization	G	Search permissions Self-Search, cloud content search, search history	>	
	Apps	ą	Searching Windows Search indexing for faster results, Find My Files, folders excluded from search	>	
3	Accounts Time & language	App pe	missions		
⊛ ★	Gaming Accessibility	$\triangleleft$	Location	>	
9	Privacy & security	Ó	Camera	>	
8	Windows Update	Ŷ	Microphone	>	
		Ŷ	Voice activation	>	
		Q	Notifications	>	
		83	Account info	>	

## **3** Under "App permissions", select "Microphone".

← Settings		-		×
A user1 Local Account	Privacy & security  resonal actionary, wards in your actionary			
Find a setting $\rho$	Diagnostics & feedback Diagnostic data, inking and typing data, tailored experiences, feedback frequency		>	
<ul> <li>System</li> <li>Bluetooth &amp; devices</li> </ul>	D Activity history Options for getting more from your activity history across devices and accounts		>	
<ul> <li>Network &amp; internet</li> <li>Personalization</li> </ul>	Search permissions SafeSearch, cloud content search, history		>	
Apps	Searching Windows Search indexing for faster results, Find My Files, folders excluded from search		>	
3 Time & language	App permissions			
<ul> <li>Gaming</li> <li>Accessibility</li> </ul>	$\checkmark$ Location		>	
Privacy & security	Camera		>	
Windows Update	Microphone		>	
	Voice activation		>	
			>	
	8Ξ Account info		>	
	0.			

← Settings user1 Local Account Find a setting P	Privacy & security > Microphone If an app is using your microphone, you'll see a microphone icon on your Windows taskbar. Some desktop page or be affected by these settings. Learn more	apps might not appear on th
System	Microphone access     Anyone using this device can choose if their apps have microphone access when this is on	On 🔵
<ul> <li>Bluetooth &amp; devices</li> <li>Network &amp; internet</li> </ul>	B Let apps access your microphone Choose which apps can access your microphone	On 🧰 🔨
<ul> <li>Personalization</li> <li>Apps</li> </ul>	Camera	On 🌑
Accounts	Cortana	On 💽
<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	Desktop App Web Viewer	Off
X Accessibility	Feedback Hub	On 🚺
<ul> <li>Privacy &amp; security</li> <li>Windows Update</li> </ul>	Microsoft Store	Off
	Photos	Off
	Take a Test	Off
	Voice Recorder	On 🚺
	Xbox Game Bar	Off
	Let desktop apps access your microphone Desktop apps that have previously accessed your microphone are listed here	On 🚺

4 Check that "Microphone access" is set to "On".

- **5** Check that "Let apps access your microphone" is set to "On", and then check the list to confirm that the recording software you are using is set to "On".
  - If it is not set to "On", change the setting of the recording software you are using to "On".

Settings	Drivery & security > Microphone	
Q user1 Local Account	Privacy & security > Microphone	
nd a setting	If an app is using your microphone, you'll see a microphone icon on your Windows taskbar. Some deskto page or be affected by these settings. Learn more	p apps might not appear on ti
nd a setting \$	·	
System	Microphone access Anyone using this device can choose if their apps have microphone access when this is on	On 🦲
Bluetooth & devices		
Network & internet	Let apps access your microphone Choose which apps can access your microphone	On 🧰 🔨
Personalization	Camera	On <b>C</b>
Apps	Camera	On
Accounts	O Cortana	On 💽
Time & language	Desktop App Web Viewer	Off
Gaming		0.1 C
Accessibility	Feedback Hub	On 💽
Privacy & security	ff Microsoft Store	Off
Windows Update	-	
	Photos	Off 💽
	Take a Test	Off
	Voice Recorder	On 💽
	🞲 Xbox Game Bar	Off
	Let desktop apps access your microphone Desktop apps that have previously accessed your microphone are listed here	On 🚺

### **6** Check that "Let desktop apps access your microphone" is set to "On".

• Changing this setting to "On" allows the recording software to access the product.

← Settings		- 0 ×
8 user1 Local Account	Privacy & security > Microphone	
	Camera	On 🌑
Find a setting $ ho$	Cortana	On 💽
<ul> <li>System</li> <li>Bluetooth &amp; devices</li> </ul>	Desktop App Web Viewer	Off
<ul> <li>Network &amp; internet</li> </ul>	Feedback Hub	On 💽
Personalization     Apps	fit Microsoft Store	Off
Accounts	Photos	Off
<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	Iake a Test	Off
X Accessibility	Voice Recorder	On 💽
<ul> <li>Privacy &amp; security</li> <li>Windows Update</li> </ul>	👔 Xbox Game Bar	Off
<ul> <li>Windows opuale</li> </ul>	Let desktop apps access your microphone Desitop apps that have previously accessed your microphone are listed here	On 💽
	Windows host process (Rundli32) Last accessed 7/2//2022   7.0315 PM	
	Privacy resources     About these settings and your privacy   Privacy dashboard   Privacy Statement	
	Get help     Give feedback	

## Microphone property settings

To change the microphone level and sample rate of the microphone, configure the following settings.

1 Click "Start Menu" and select "Settings".

## 2 Select "System".

← Settings		- 🗆 X
A user1 Local Account	System	
Find a setting $\rho$	To Be Filled By O.E.M. Rename Microsoft 365	Windows Update Last checked: 6 hours ago
System		
Bluetooth & devices     Network & internet	Display Monitors, brightness, night light, display profile	>
Personalization	Sound         Volume levels, output, input, sound devices	>
Apps Accounts	Notifications     Alerts from apps and system	>
<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	Focus assist     Notifications, automatic rules	>
<ul> <li>Accessibility</li> <li>Privacy &amp; security</li> </ul>	U Power Skeep, battery usage, battery saver	>
<ul> <li>Windows Update</li> </ul>	Storage Storage space, drives, configuration rules	>
	Multitasking     Snap windows, desktops, task switching	>
	Activation     Activation state, subscriptions, product key	>
	Traubleshoot     Recommended troubleshooters, preferences, history	>
	Eset: advanced startup, go back	>

3 Select "Sound".

← Settings		- 0 ×
A user1 Local Account	System	
Find a setting O	To Be Filled By O.E.M. Rename Microsoft 365 • OneDrive View benefits • Sign In	Windows Update Last checked: 6 hours ago
System		
8 Bluetooth & devices	Display Monitors, brightness, night light, display profile	>
Network & internet		
Personalization	Volume levels, output, input, sound devices	>
Apps     Accounts	Notifications     Alerts from apps and system	>
<ul><li>Time &amp; language</li><li>Gaming</li></ul>	Focus assist     Notifications, automatic rules	>
<ul> <li>Accessibility</li> <li>Privacy &amp; security</li> </ul>	U Power Sileep, battery usage, battery saver	>
Windows Update	Storage space, drives, configuration rules	>
	Multitasking     Snap windows, desiktops, task switching	>
	Activation     Activation state, subscriptions, product key	>
	Traubleshoot     Recommended traubleshooters, preferences, history	>
	Recovery Reset, advanced startup, go back	>

## **4** Under "Advanced", select "More sound settings".

Settings		- 0
Q user1 Local Account	System > Sound	
Find a setting	Mono audio Combine left and right audio channels into one	Off
	Input	
System	inpot	
Bluetooth & devices	Choose a device for speaking or recording Apps might have their own settings	Microphone 🥎
<ul> <li>Network &amp; internet</li> <li>Personalization</li> </ul>	Microphone AT2020USB-X	>
Apps	Pair a new input device	Add device
Accounts		
Time & language	Volume	Q 50
Gaming	Advanced	
X Accessibility		
Privacy & security	Troubleshoot common sound problems	Output devices Input devices
Windows Update	All sound devices Turn devices on/off, troubleshoot, other options	>
		>
	More sound settings	ß
	Get help	

- **5** In the "Playback" tab, confirm that the product is selected.
  - If the product is not selected, select the product, and then click "Set Default".

Sound	ł					×
Playback	Recording	Sounds	Communications			
Select a	playback de	evice belo	w to modify its se	ettings:		
	Headp AT2020	hones				
<u>C</u> onfi	gure		<u>S</u> et Defa	ault 💌	<u>P</u> roperties	)
			ОК	Cancel	Apply	

- **6** Double-click the product's icon, and open the properties window.
- **7** Select the "Levels" tab, check that the microphone speaker icon is on, and then click "OK".
  - If it is not on, click the microphone speaker icon to turn it on.

leadphones Properties	Х
General Levels Enhancements Advanced Spatial sound	
Headphones 46 (1) Balance	
OK Cancel Apply	

## 8 In the "Recording" tab, confirm that the product is selected.

• If the product is not selected, select the product, and then click "Set Default".

Sound	×
Playback Recording Sounds Communications	
Select a recording device below to modify its settings:	
Microphone AT2020USB-X Default Device	
Configure Set Default V Propert	ies
OK Cancel Ap	ply

**9** Double-click the product's icon, and open the "Microphone Properties" window.

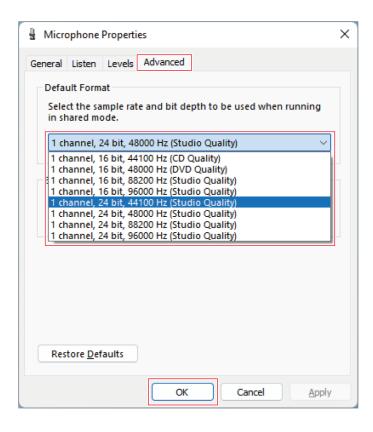
**10** Select the "Levels" tab to adjust the microphone level.

- To adjust the microphone level after you start recording, make the adjustments from this window.
- This setting is different from the "Volume" setting in the "Sound" window.

Hicrophone Properties	×
General Listen Levels Advanced	
Microphone 50	
OK Cancel Apply	~

# **11** Select the "Advanced" tab, select the sample rate and bit depth under "Default Format", and then click "OK".

- With this product, you can select a sample rate of up to 96 kHz. Selecting a high sample rate may result in high-quality recorded audio data but will also make these files large.
- For stable recording with less load on the computer, change the sample rate to 48 kHz.
- When controlling the microphone from the recording software, select the "Give exclusive mode applications priority" check box under "Exclusive Mode". The sample rate will be set according to the settings of the recording software.



12 When a "Device In Use" message appears, click "Yes".

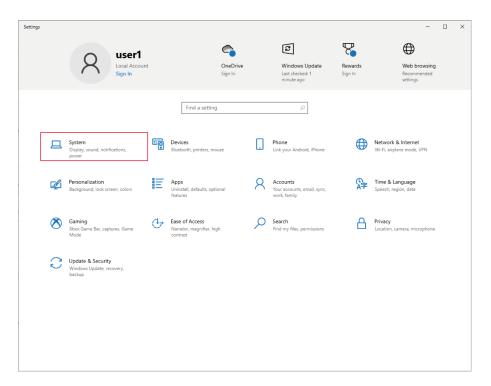


## For Windows 10

- Use the USB cable to connect the product to a computer.
- **2** Confirm that the mute indicator lamp on the product lights.
  - The computer automatically recognizes the product and the driver is installed on the computer. In the lower right part of the screen, a message appears indicating that new hardware has been found or a notification appears indicating that the driver software has been installed.

**3** Click "Start Menu" and select "Settings".

#### 4 Select "System".



5 Select "Sound".

← Settings		>
යි Home	Sound	
Find a setting $\wp$ System	Output Choose your output device	Related Settings Bluetooth and other devices Sound Control Panel
Display	Headphones (AT2020USB-X) Certain apps may be set up to use different sound devices than the one selected here. Customize app volumes and devices in advanced sound options.	Microphone privacy settings Ease of Access audio settings
Notifications & actions     Focus assist	Device properties Master volume (40)	Help from the web Setting up a microphone Fixing sound problems
Power & sleep     Storage	▲ Troubleshoot Manage sound devices	Get help Give feedback
편 Tablet 뷰 Multitasking	Input Choose your input device	
<ul> <li>Projecting to this PC</li> <li>Shared experiences</li> </ul>	Microphone (AT2020USB-X) Certain apps may be set up to use different sound devices than the one selected here. (Lustomize app volumes and devices in advanced sound options.	
Clipboard Kemote Desktop	Device properties Test your microphone L	
C About	Troubleshoot Manage sound devices	
	Advanced sound options	

#### **6** Under "Output" and "Input", confirm that the product is selected.

- If a device other than the product is being used as the output device, select this other device from "Choose your output device".
- If you are using commercially available recording software to record audio, refer to "Microphone privacy settings" (p. 23) to configure the settings.

← Settings		-	×
வ் Home	Sound		
Find a setting	Output	Related Settings Bluetooth and other devices	
System	Headphones (AT2020USB-X)	Sound Control Panel	
다 Display (10) Sound	Certain apps may be set up to use different sound devices than the one selected here. Customize app volumes and devices in advanced sound options.	Microphone privacy settings Ease of Access audio settings	
Notifications & actions	Device properties Master volume	Help from the web	
J Focus assist	۹» <u>100</u>	Setting up a microphone Fixing sound problems	
🖒 Power & sleep	▲ Troubleshoot	Get help	
B Storage	Manage sound devices	Give feedback	
Hi Multitasking			
Projecting to this PC	Microphone (AT2020USB-X)  Certain apps may be set up to use different sound devices than the one		
X Shared experiences	Certain apps may be set up to use dimerent sound devices than the one selected here. Customize app volumes and devices in advanced sound options.		
D Clipboard	Device properties Test your microphone		
Kemote Desktop			
① About	A Troubleshoot Manage sound devices		
	Advanced sound options		

# Microphone privacy settings

If you are using commercially available recording software, check the microphone privacy settings.

In the "Sound" window, select "Microphone privacy settings".

← Settings		-		×
வ் Home	Sound			
Find a setting	Output Choose your output device	Related Settings Bluetooth and other devices Sound Control Panel		
다 Display 4   Sound	Headphones (AT2020USB-X) Certain apps may be set up to use different sound devices than the one selected here. Customize app volumes and devices in advanced sound options.	Microphone privacy settings Ease of Access audio settings	5	
<ul> <li>Notifications &amp; actions</li> <li>Focus assist</li> </ul>	Device properties Master volume  (10) 100	Help from the web Setting up a microphone Fixing sound problems		
<ul> <li>Power &amp; sleep</li> <li>Storage</li> </ul>	A Troubleshoot Manage sound devices	<ul> <li>Get help</li> <li>Give feedback</li> </ul>		
记 Tablet 뷰i Multitasking	Input Choose your input device	_		
<ul> <li>Projecting to this PC</li> <li>Shared experiences</li> </ul>	Microphone (AT2020USB-X) Certain apps may be set up to use different sound devices than the one selected here. Customize app volumes and devices in advanced sound			
D Clipboard	options. Device properties			
<ul><li>&gt;&lt; Remote Desktop</li><li>O About</li></ul>	Test your microphone  Toubleshoot  Manage sound devices			
	Advanced sound options			

**2** Check that "Allow apps to access your microphone" is set to "On".

← Settings		- 🗆 X
வ் Home	Microphone	
Find a setting	Allow access to the microphone on this device	Know your privacy options
Privacy	If you allow access, people using this device will be able to choose if their apps have microphone access by using the settings on this page. Denying access blocks Windows features. Microsoft Store apps, and most desktop apps from accessing the microphone.	Learn how this setting impacts your privacy. Learn more Privacy dashboard Privacy statement
Windows permissions	Microphone access for this device is on	
🔒 General	Change	Get help
A <sup>()</sup> Speech	Allow apps to access your microphone	Give feedback
<ul> <li>Inking &amp; typing personalization</li> <li>P Diagnostics &amp; feedback</li> </ul>	If you allow access, you can choose which apps can access your microphone by using the settings on this page. Denying access blocks apps from accessing your microphone.	
ス Diagnostics & teedback	On	
App permissions	Some desktop apps may still be able to access your microphone when settings on this page are off. Find out why If an app is using your microphone, you'll see this icon:	
D Camera	Choose which Microsoft Store apps can access	
Microphone	your microphone	
Uvice activation	Some apps need to access your microphone to work as intended. Turning off an app here might limit what it can do.	
Notifications	Sort by: Name $\!$	
RE Account info	3D Viewer On	
R <sup>R</sup> Contacts	Camera On	
E Calondar		

- **3** Check that the recording software you are using is set to "On" under "Choose which Microsoft Store apps can access your microphone".
  - If it is not set to "On", change the setting of the recording software you are using to "On".

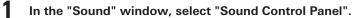
**4** Check that "Allow desktop apps to access your microphone" is set to "On".

• Changing this setting to "On" allows the recording software to access the product.

← Settings		-	×
ŵ Home	Microphone		
Find a setting $\rho$	Microsoft Store On		^
Privacy	Mixed Reality Portal On		
Windows permissions	OneNote for Windows 10 Off		
🔒 General	S Skype On		
R <sup>0</sup> Speech	Take a Test Off		
Inking & typing personalization			
P Diagnostics & feedback	Voice Recorder   Off		
曰: Activity history	Xbox Console Companion Off		
App permissions	Xbox Game Bar On		ł.
凸 Location			
I Camera	Allow desktop apps to access your microphone		
D Microphone	Some apps and Windows features need to access your microphone to work as intended. Turning off this setting here might limit what desktop apps and Windows can do.		
Voice activation	On On		
Notifications	Some desktop apps might not appear in the following list or are not affected by this setting. Find out why		
RE Account info			
R <sup>R</sup> Contacts	Sort by: Name 🗸		
E Colondar			$\sim$

# Microphone property settings

To change the microphone level and sample rate of the microphone, configure the following settings.



← Settings		- 🗆 X
வ் Home	Sound	
Find a setting $ ho$	Output Choose your output device	Related Settings Bluetooth and other devices Sound Control Panel
다 Display 데 Sound	Headphones (AT2020USB-X) Certain apps may be set up to use different sound devices than the one selected here. Customize app volumes and devices in advanced sound options.	Microphone privacy settings Ease of Access audio settings
<ul> <li>Notifications &amp; actions</li> <li>Focus assist</li> </ul>	Device properties Master volume  (3) 100	Help from the web Setting up a microphone Fixing sound problems
<ul> <li>Power &amp; sleep</li> <li>Storage</li> </ul>	A Troubleshoot Manage sound devices	Get help
다. Tablet 뷰: Multitasking	Input Choose your input device	Cive regulack
Projecting to this PC	Microphone (AT2020USB-X) Certain apps may be set up to use different sound devices than the one	
X Shared experiences	selected here. Customize app volumes and devices in advanced sound options. Device properties	
<ul><li>Remote Desktop</li><li>About</li></ul>	Test your microphone	
	Manage sound devices	
	Advanced sound options	

# **2** In the "Playback" tab, confirm that the product is selected.

• If the product is not selected, select the product, and then click "Set Default".

Sound	I				>	×
Playback	Recording	Sounds	Communications	5		
Select a	playback de	evice belo	w to modify its	settings:		
	Headp AT2020 Defaul					
<u>C</u> onfi	gure		<u>S</u> et De	fault 🔽	<u>P</u> roperties	
			ОК	Cancel	<u>A</u> pply	

- **3** Double-click the product's icon, and open the properties window.
- 4 Select the "Levels" tab, check that the microphone speaker icon is on, and then click "OK".
  - If it is not on, click the microphone speaker icon to turn it on.

R Headphones Properties	$\times$
General Levels Enhancements Advanced Spatial sound	
Headphones 46 Balance	
OK Cancel Apply	/

## **5** In the "Recording" tab, confirm that the product is selected.

• If the product is not selected, select the product, and then click "Set Default".

Sound >	<
Playback Recording Sounds Communications	
Select a recording device below to modify its settings:	
AT2020USB-X Default Device	
<u>C</u> onfigure <u>Properties</u>	
OK Cancel Apply	

**6** Double-click the product's icon, and open the properties window.

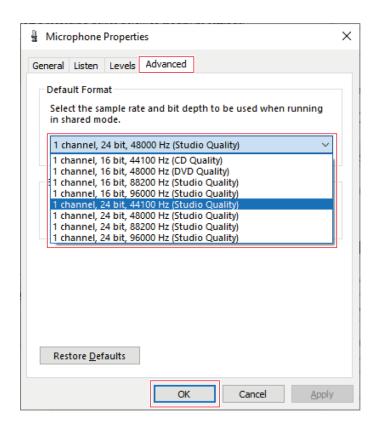
7 Select the "Levels" tab to adjust the microphone level.

- To adjust the microphone level after you start recording, make the adjustments from this window.
- This setting is different from the "Master volume" setting in the "Sound" window.

Hicrophone Properties	×
General Listen Levels Advanced	
Microphone 50	
OK Cancel	<u>A</u> pply

# 8 Select the "Advanced" tab, select the sample rate and bit depth under "Default Format", and then click "OK".

- With this product, you can select a sample rate of up to 96 kHz. Selecting a high sample rate may result in high-quality recorded audio data but will also make these files large.
- For stable recording with less load on the computer, change the sample rate to 48 kHz.
- When controlling the microphone from the recording software, select the "Give exclusive mode applications priority" check box under "Exclusive Mode". The sample rate will be set according to the settings of the recording software.



**9** When a "Device In Use" message appears, click "Yes".



## For Windows 8.1

- Use the USB cable to connect the product to a computer.
- **2** Confirm that the mute indicator lamp on the product lights.
  - The computer automatically recognizes the product and the driver is installed on the computer. In the lower right part of the screen, a message appears indicating that new hardware has been found or a notification appears indicating that the driver software has been installed.

**3** Right click "Start Menu", and select "Control Panel".

#### 4 Select "Sound".



#### In the "Playback" tab, confirm that the product is selected.

- If the product is not selected, select the product, and then click "Set Default".
- If you are using commercially available recording software to record audio, refer to "Microphone privacy settings" (p. 33) to configure the settings.

Sound	×
Playback Recording Sounds Communications	
Select a playback device below to modify its settings:	
Headphones AT2020USB-X Default Device	
<u>C</u> onfigure <u>S</u> et Default ▼ <b>Propert</b> i	es
OK Cancel Ap	

#### **6** In the "Recording" tab, confirm that the product is selected.

• If the product is not selected, select the product, and then click "Set Default".

Sound	×
Playback Recording Sounds Communications	
Select a recording device below to modify its settings:	
Microphone AT2020USB-X Default Device	
<u>C</u> onfigure <u>Set Default</u> Properties	s
OK Cancel Appl	у

## Microphone privacy settings

If you are using commercially available recording software, check the microphone privacy settings.

- Click "Start Menu" and select "PC settings".
- 2 Select "Privacy".
- **3** Select "Microphone".
- 4 Check that "Let apps use my microphone" is set to "On".
- **5** Check that the recording software you are using is set to "On" under "Let these apps use my microphone".
  - If it is not set to "On", change the setting of the recording software you are using to "On".

## Microphone property settings

To change the microphone level and sample rate of the microphone, configure the following settings.

In "Control Panel", select "Sound".

### **2** In the "Playback" tab, confirm that the product is selected.

• If the product is not selected, select the product, and then click "Set Default".

Sound	I					×		
Playback	Recording	Sounds	Communications					
Select a	Select a playback device below to modify its settings:							
	Headp AT2020 Defaul							
<u>C</u> onfi	gure		<u>S</u> et Defa	ault 🔽	<u>P</u> roperties	]		
			OK	Cancel	Apply			

- **3** Double-click the product's icon, and open the properties window.
- **4** Select the "Levels" tab, check that the microphone speaker icon is on, and then click "OK".
  - If it is not on, click the microphone speaker icon to turn it on.

R Headphones Properties	×
General Levels Enhancements Advanced Spatial sound	
Headphones 46 () Balance	
OK Cancel Apply	/

## **5** In the "Recording" tab, confirm that the product is selected.

• If the product is not selected, select the product, and then click "Set Default".

Sound	Х
Playback Recording Sounds Communications	
Select a recording device below to modify its settings:	
Microphone AT2020USB-X Default Device	
<u>C</u> onfigure <u>Set Default</u> Properties	
OK Cancel Apply	

**6** Double-click the product's icon, and open the properties window.

7 Select the "Levels" tab to adjust the microphone level.

- To adjust the microphone level after you start recording, make the adjustments from this window.
- This setting is different from the "Master volume" setting in the "Sound" window.

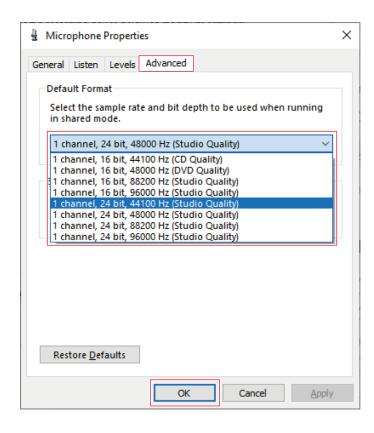
#### **Computer settings (Windows)**

Hicrophone Properties	×
General Listen Levels Advanced	
Microphone 50	
OK Cancel	Apply

# 8 Select the "Advanced" tab, select the sample rate and bit depth under "Default Format", and then click "OK".

- With this product, you can select a sample rate of up to 96 kHz. Selecting a high sample rate may result in high-quality recorded audio data but will also make these files large.
- For stable recording with less load on the computer, change the sample rate to 48 kHz.
- When controlling the microphone from the recording software, select the "Give exclusive mode applications priority" check box under "Exclusive Mode". The sample rate will be set according to the settings of the recording software.

#### **Computer settings (Windows)**

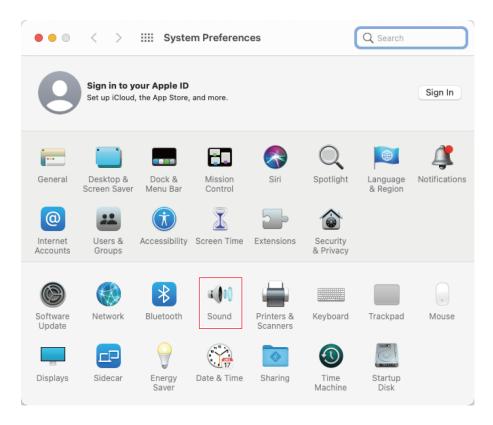


# **Computer settings (macOS)**

### macOS Catalina, macOS Big Sur, and macOS Monterey

- **1** Use the USB cable to connect the product to a computer.
- 2 Confirm that
  - Confirm that the mute indicator lamp on the product lights.
  - The computer automatically recognizes the product and the driver is installed on the computer.
- **3** From the Apple icon, select "System Preferences".

#### 4 Select "Sound".



**5** In the "Input" tab, confirm that the product is selected.

	Sound Effects Output Input	
Select a device for sound	d input:	
Name	Туре	
Internal Microphone	Ruilt-in	
AT2020USB-X	USB	
Settings for the selected o	device:	
-	device:	
Input volu		
Input volu	me: 🖳 📃	

**6** Use "Input volume" to adjust the microphone level.

- Speaking into the microphone will cause the "Input level" indicator to move, so you can adjust the input volume while viewing this indicator.
- Use "Output volume" to adjust the volume of the computer's speakers and headphone jack. This is different from adjusting the microphone level.

		Sound Effects   Output Input	
Select a device	for sound inp	ut:	
Name		Туре	
Internal Microp	hone	Built-in	
AT2020USB-X		USB	
Settings for the	selected devic	e:	
F		ve: ♥: 	
F		Ų:	
F			

### **7** In the "Output" tab, confirm that the product is selected.

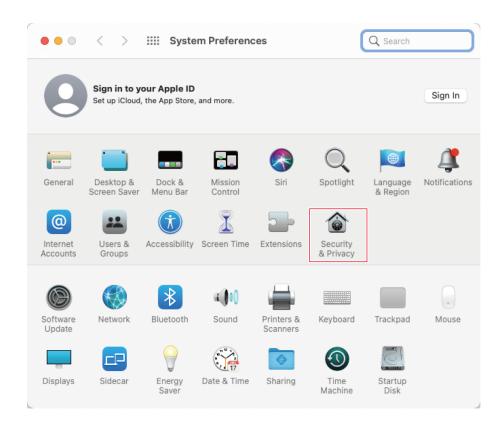
- If a device other than the product is being used to output sound, select this other device from "Select a device for sound output".
- You can use "Balance" to set the balance between the left and right volumes.
- Use "Output volume" to adjust the playback level from the computer.
- If you are using commercially available recording software to record audio, refer to "Security and privacy settings" (p. 42) to configure the settings.

	Sound Effects Output Input	
Select a device for sou	ind output:	
Name	Туре	
Internal Speakers	Ruilt-in	-
AT2020USB-X	USB	
Settings for the selected	d device:	
	d device: ance:	
	ance:	(

### Security and privacy settings

- If you are using commercially available recording software, check the security and privacy settings.
- If you are using commercially available recording software, use software that is compatible with macOS.

In the "System Preferences" window, select "Security & Privacy".



2 In the "Privacy" tab, select "Microphone".

General	FileVault Firewall Privacy
Location Services	✓ Enable Location Services
Contacts	Allow the apps and services below to determine your location.
17 Calendars	Siri & Dictation
Reminders	System Services Details ┥
Rhotos	
Camera	
Microphone	<ul> <li>Indicates an app that has used your location within the</li> </ul>
الله Speech Recognition	<sup>™</sup> last 24 hours.
Accessibility	About Location Services & Privacy

#### **3** Check that the recording software you are using is enabled.

- If it is not enabled, select the check box next to this software.
- To change the "Security & Privacy" settings, you have to unlock them with the icon in the lower-left corner of the screen. Clicking this icon displays a screen for unlocking the settings. Enter the user name and password, and then click "Unlock". After changing the settings, lock them.

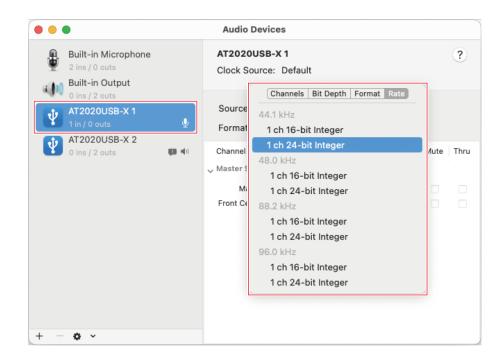
#### Audio device settings

To change the sample rate of the microphone, configure the following settings.

**1** Open "Audio Midi Setup" in the "Utilities" folder in the "Applications" folder.

# **2** Under "Audio Devices", select the product. In the "Input" tab, select the sample rate and bit depth from "Format".

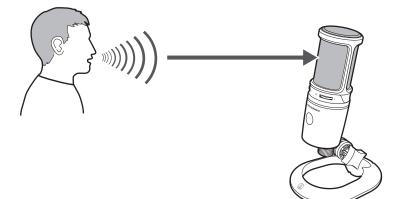
- Two types of the product are displayed, but select the one that shows "1 in / 0 outs".
- With this product, you can select a sample rate of up to 96 kHz. Selecting a high sample rate may result in high-quality recorded audio data but will also make these files large.
- For stable recording with less load on the computer, change the sample rate to 48 kHz.
- Match the sample rate to the value set with the recording software. Failing to do so may result in noise.



## Using the product

### **Microphone orientation**

- To use the product, face towards the side that has the Audio-Technica logo while speaking.
- Set this product and the sound source nearby. It is more difficult to pick up noise other than the target sound source.
- If wind or breath noise is present, move the product slightly away from the front of the sound source and point it toward the speaker.



### Using software for recording

Software for recording is not included with the product. To use the product to record audio, use separate recording software. You may need to set up the recording software, such as by setting the audio input and output. For details, see the User Manual for the recording software.

### Adjusting the microphone level

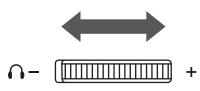
To get the best performance, you need to appropriately adjust the microphone level of the product. If the sound is distorted, or the recording software you are using is always at peak levels, then decrease the microphone level of the product in the settings on the control panel (system preferences for macOS) or the settings for the recording software you are using. If you feel that the product's microphone level is insufficient, then increase the microphone level of the product in the settings on the control panel (system preferences for macOS) or the settings for the recording software you are using. After that, you do not need to adjust the microphone level of the product, unless the volume of the sound source varies greatly.

### Connecting and using the headphones

You can monitor sounds being recorded by connecting headphones to the headphone jack. Also, you can directly monitor your own voice from the product while listening to a sound source from your computer.

#### Using the product

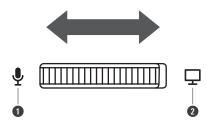
- Connect the headphones to the headphone jack.
- 2 Turn the headphone level control dial to adjust the volume.



• The headphone level control dial adjusts the volume of the headphone output; it does not adjust the microphone level.

### Using the mix control dial

The product allows you to directly monitor your own voice from the product while listening to a sound source from your computer. You can use the mix control dial to adjust the balance of the volume level of the sound source stored on the computer and the monitored volume level of the audio being input.



1 Turning the dial toward the microphone side increases the monitored volume level of the audio being input.

2 Turning the dial toward the computer side increases the volume level of the sound source stored on the computer.

### Muting the microphone

Turn the muting of the microphone on/off.

#### **1** Touch the touch sensor for mute.

• Each time you touch this control, muting turns on (lights red) or off (lights blue).



# Cleaning

Get into the habit of regularly cleaning the product to ensure that it will last for a long time. Do not use alcohol, paint thinners, or other solvents for cleaning purposes.

- Wipe dirt off the product with a dry cloth.
- If the cables become dirty because of sweat, etc., wipe them with a dry cloth immediately after use. Failure to clean the cables may cause them to deteriorate and harden over time, resulting in a malfunction.

() • If the product will not be used for an extended period of time, store it in a well-ventilated place free from high temperatures and humidity.

# Troubleshooting

### ? The mute indicator lamp is blinking

• The sampling rate setting differs from that set in the "Playback" or "Recording" tab on the Windows PC you are using or in the "Output" or "Input" tab on the Mac you are using. Match the sampling rate settings. For details on the settings, refer to "Computer settings (Windows)" (p. 8) or "Computer settings (macOS)" (p. 39).

# The product is not recognized / no sound is produced / sound is distorted / recorded audio is played back at twice the normal speed

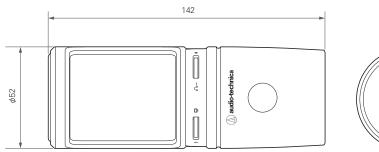
• The product may not operate correctly depending on the computer you are using. Countermeasures for these situations are provided on the Audio-Technica website.

# Supported bit depths and sampling rates

The product supports the following bit depths and sampling rates.

Recording (output)	Playback (input)
1 channel, 16 bit, 44100 Hz	2 channel, 16 bit, 44100 Hz
1 channel, 16 bit, 48000 Hz	2 channel, 16 bit, 48000 Hz
1 channel, 16 bit, 88200 Hz	2 channel, 16 bit, 88200 Hz
1 channel, 16 bit, 96000 Hz	2 channel, 16 bit, 96000 Hz
1 channel, 24 bit, 44100 Hz	2 channel, 24 bit, 44100 Hz
1 channel, 24 bit, 48000 Hz	2 channel, 24 bit, 48000 Hz
1 channel, 24 bit, 88200 Hz	2 channel, 24 bit, 88200 Hz
1 channel, 24 bit, 96000 Hz	2 channel, 24 bit, 96000 Hz

# Dimensions



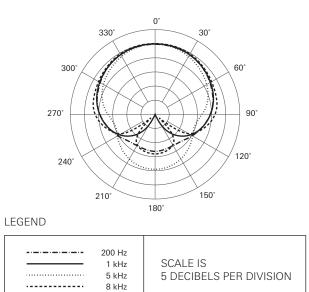
(Unit: mm)

# **Specifications**

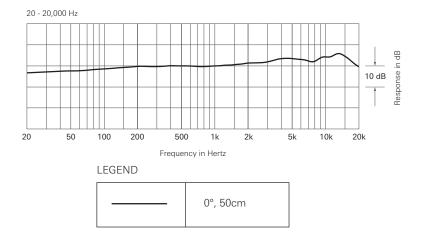
System requirements	USB 2.0 compliant
Supported OS	Windows 8.1, Windows 10, Windows 11 macOS Catalina, macOS Big Sur, macOS Monterey (Please check the product's web page for the latest information.)
Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Cardioid
Frequency response	20-20,000 Hz
Power supply	USB power (5 VDC)
Bit depth	16 bit/24 bit
Supported sampling rates	44.1 kHz/48 kHz/88.2 kHz/96 kHz
Controls	Headphone level control, Mix control, Mute
Dimensions	142 mm (5.6") long, 52 mm (2.0") maximum body diameter
Weight	About 373 g (13 oz)
Output connector	USB Type-C
Headphone output	110 mW (at 1 kHz, 1% T.H.D., 32 ohms)
Headphone jack	3.5 mm (1/8") stereo mini-jack
Included accessories	Stand (AT8702), 3/8"-16 to 5/8"-27 threaded adapter, USB cable (about 2.0 m (6.6'), USB Type-C to USB Type-A), USB conversion adapter (USB Type-A to USB Type-C)

• For product improvement, the product is subject to modification without notice.

### Polar pattern



Frequency	response
-----------	----------



# Trademarks

- USB Type-C<sup>™</sup> is a trademark of USB Implementers Forum.
- Microsoft<sup>®</sup> and Windows<sup>®</sup> are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Microsoft Windows operating system is indicated in its abbreviated form as Windows.
- Mac and macOS are trademarks of Apple Inc., registered in the U.S. and other countries and regions.

**株式会社オーディオテクニカ** 〒194-8666 東京都町田市西成瀬2-46-1 www.audio-technica.co.jp

#### **Audio-Technica Corporation**

2-46-1 Nishi-naruse, Machida, Tokyo 194-8666, Japan www.audio-technica.com ©2022 Audio-Technica Corporation Global Support Contact: www.at-globalsupport.com