

# 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

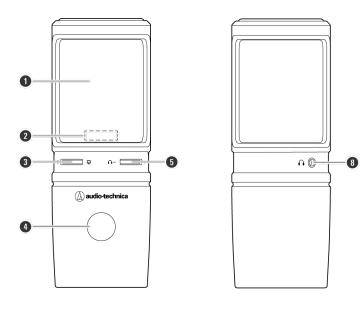
CAN ICES-3 (B)/NMB-3(B)

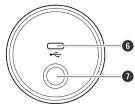
# Notes on use

- 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

#### Ø Mute indicator lamp

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

#### 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).

#### Touch sensor for mute

Turns the muting of the microphone on/off.

#### Headphone level control dial

Adjusts volume of headphone output.

#### **③** USB terminal (USB Type-C<sup>™</sup>)

Use to connect the included USB cable.

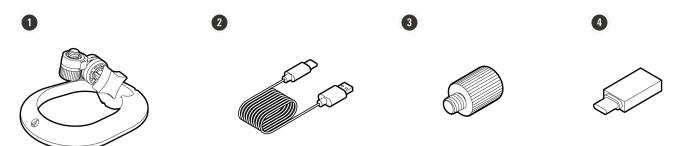
#### **7** 3/8" Stand mounting screw hole

Use when attaching the stand.

#### **8** Headphone jack (3.5 mm (1/8") stereo mini-jack)

Use to connect headphones.

## **Included accessories**



- Stand
- **2** USB cable (USB Type-C to USB Type-A)
- 3/8"-16 to 5/8"-27 threaded adapter
- **4** USB conversion adapter (USB Type-A to USB Type-C)

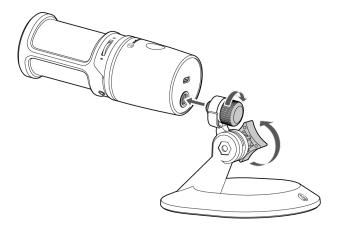
# Setting up the product

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

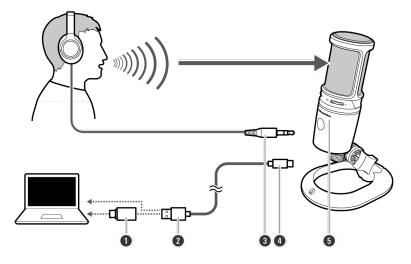
You can use the stand to place the product on a table or a similar surface.

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.



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

# **Connection procedure**



- **1** USB conversion adapter (USB Type-A to USB Type-C)
- USB Type-A
- Headphone input plug
- USB Type-C
- Audio-Technica logo

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. 38) 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.

# **Computer settings (Windows)**

# For Windows 11

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

#### 4 Select "System".

← Settings	- c	X
Local Account	To Be Filled By O.E.M. Rename Microsoft 365 OneDrive Sign in Sign in Sign in Sign in Sign in	
System Bluetooth & devices Network & internet	Display Monitors, brightness, night light, display profile	>
Personalization	Sound         Volume levels, eutput, input, sound devices	>
Apps     Accounts	Notifications     Alarts from apps and system	>
<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	Focus assist     Notifications, automatic rules	>
Accessibility     Privacy & security	Power     Siere, battery usage, battery saver	>
Windows Update	Storage space, drives, configuration rules	>
	Multitasking     Snap windows, desktops, task twitching	>
	Activation     Activation product key	>
	Troubleshoot     Recommended troubleshooters, preferences, history	>
	Recovery Reset: advanced startup, go back	>

← Settings		- 🗆 ×
R user1 Local Account	System	
Find a setting O	To Be Filled By O.E.M. Microsoft 365  OneDrive Sign In	Windows Update Last checked: 6 hours ago
System		
<ul> <li>Bluetooth &amp; devices</li> <li>Network &amp; internet</li> </ul>	Display Monitors, brightness, night light, display profile	>
Personalization     Apps	Sound         Sound devices	>
Accounts	Q 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>	Power Sleep, battery usage, battery saver	>
Windows Update	Storage Storage space, drives, configuration rules	>
	Multitasking Snap windows, desktops, task switching	>
	Activation     Activation state, subscriptions, product key	>
	Control Troubleshooters, preferences, history	>
	Recovery     Reset, 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	
nd a setting	Choose where to play sound Apps might have their own settings	Headphones 🔿
System Bluetooth & devices	Headphones AT2020US8-X	>
Network & internet	Pair a new output device	Add device
Personalization	Volume	(1) 46
Accounts Time & language	Mono audio Combine left and right audio channels into one	Off ●
Gaming	Input	
·9		
Accessibility Privacy & security	Choose a device for speaking or recording Apps might have their own settings	Microphone 🔿
Accessibility	Choose a device for speaking or recording Apps might have their own settings Microphone AT2028USB-X	Microphone A
Accessibility Privacy & security	Apps might have their own settings     Microphone	
Accessibility Privacy & security	Apps might have their own settings Microphone AT2020USB-X	>
Accessibility Privacy & security	Apps might have their own settings Microphone AT2020US8-X Pair a new input device	Add device

## Microphone privacy settings

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

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

2 Select "Privacy & security".

← Settings		- 🗆 X
8 user1 Local Account	Privacy & security	
Find a setting ${\cal P}$	Diagnostics & feedback Diagnostic data, inking and typing data, tailored experiences, feedback frequency	>
<ul> <li>System</li> <li>Bluetooth &amp; devices</li> </ul>	Source of the second se	>
<ul> <li>Network &amp; internet</li> <li>Personalization</li> </ul>	SateSearch permissions SateSearch, cloud content search, search history	>
Apps	Searching Windows Search indexing for faster results, Find My Files, folders excluded from search	>
<ul> <li>Time &amp; language</li> </ul>	App permissions	
<ul> <li>Gaming</li> <li>Accessibility</li> </ul>	Location	>
Privacy & security	C Camera	>
😌 Windows Update	Q. Microphone	>
	Voice activation	>
	Q Notifications	>
	SE Account info	>

← Settings		- 🗆 X
A user1 Local Account	Privacy & security  revisional actionary, words in your actionary	
Find a setting O	Diagnostics & feedback Diagnostic data, inking and typing data, tailored experiences, feedback frequency	>
<ul> <li>System</li> <li>Bluetooth &amp; devices</li> </ul>	Deptors for getting more from your activity history across devices and accounts	>
Network & internet     Personalization	Search permissions SafeSearch, cloud content search, search history	>
Apps	Searching Windows Search indexing for faster results, Find My Files, folders excluded from search	>
Time & language	App permissions	
<ul> <li>Gaming</li> <li>Accessibility</li> </ul>	4 Location	>
Privacy & security	© Camera	>
😚 Windows Update	Q Microphone	>
	Voice activation	>
	Q Notifications	>
	8Ξ Account info	>
	0.	

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

← Settings		- 0 ×
8 user1 Local Account	Privacy & security > Microphone	
Find a setting P	If an app is using your microphone, you'll see a microphone icon on your Windows taskbar. Some desktop app page or be affected by these settings. Learn more	s might not appear on this
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>	g Let apps access your microphone Choose which apps can access your microphone	On 💽 ^
Personalization     Apps	Camera	On 🌑
Accounts	Cortana	On 💽
<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	Desktop App Web Viewer	Off
* Accessibility	Feedback Hub	On 💽
Privacy & security	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 🚺

- **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		- 🗆 X
B userl Local Account	Privacy & security > Microphone If an app is using your microphone, you'll see a microphone icon on your Windows taskbar. Some desktop apps or page or be affected by these settings. Learn more	night not appear on this
System Bluetooth & devices Network & internet	Microphone access     Anyone using this device can choose if their apps have microphone access when this is on     Let apps access your microphone	On On
Personalization     Apps	Choose which apps can access your microphone     Camera     Camera	On <b>O</b>
<ul> <li>Accounts</li> <li>Time &amp; language</li> <li>Gaming</li> </ul>	Cortana     Desktop App Web Viewer	On Off
Accessibility     Privacy & security     Windows Update	Feedback Hub	On Off
	Photos  Take a Test	Off  Off
	Voice Recorder           Voice Recorder           Image: Stock Game Bar	On Off
	Let desktop apps access your microphone Desktop apps that have previously accessed your microphone are listed here	On 💽

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

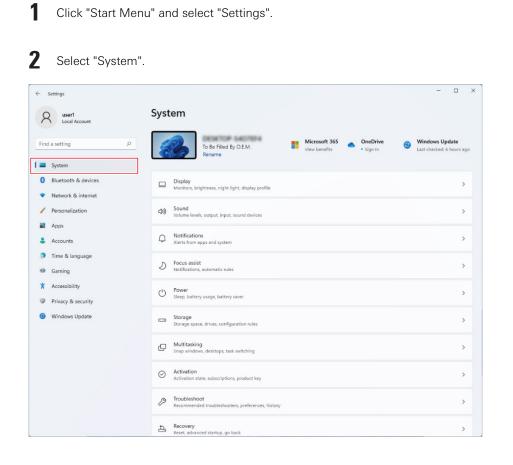
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• Changing this setting to "On" allows the recording software to access the product.

← Settings		- 🗆 ×
Q user1 Local Account	Privacy & security > Microphone	
	Camera	On 💽
Find a setting	Cortana	On 💽
<ul> <li>System</li> <li>Bluetooth &amp; devices</li> </ul>	Desktop App Web Viewer	Off
Network & internet	Feedback Hub	On 💽
<ul> <li>Personalization</li> <li>Apps</li> </ul>	Microsoft Store	Off
Accounts	Photos	Off
<ul> <li>Time &amp; language</li> <li>Gaming</li> </ul>	🛅 Take a Test	Off
X Accessibility	Voice Recorder	On 💽
<ul> <li>Privacy &amp; security</li> <li>Windows Update</li> </ul>	🔀 Xbox Game Bar	Off
	Let desktop apps access your microphone Desktop apps that have previously accessed your microphone are listed here	On 🌑
	Windows host process (Rundl 32) Last accessed 7/21/2022   7:0315 PM	
	Privacy resources     About these settings and your privacy   Privacy dashboard   Privacy Statement	
	Cet help	

### Microphone property settings

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



← Settings		- 🗆 X
R user1 Local Account	System	
Find a setting P		Windows Update Last checked: 6 hours ago
System		
<ul> <li>Bluetooth &amp; devices</li> <li>Network &amp; internet</li> </ul>	Display Monkors, 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 Netification, automatic rules	>
<ul> <li>Accessibility</li> <li>Privacy &amp; security</li> </ul>	Power Sileep, battery usage, battery saver	>
Windows Update	Storage space, drives, configuration rules	>
	Multitaking     Snap windows, desktops, task switching	>
	Activation     Activation state, subscriptions, product key	>
	Troubleshoot Recommended troubleshooters, preferences, history	>
	Recovery Reset, advanced startup, go back	>

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

Q user1 Local Account	System > Sound	
ind a setting	Mono audio Combine left and right audio channels into one	Off
	Input	
System		
Bluetooth & devices	Choose a device for speaking or recording Apps might have their own settings	Microphone 🔨
Network & internet	Microphone	>
Personalization	AT2020USB-X	
Apps	Pair a new input device	Add device
Accounts		
Time & language	Volume	Q 50
Gaming	Advanced	
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	C
	R 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	I				×
Playback	Recording	Sounds	Communications		
Select a	playback de	evice belo	w to modify its s	ettings:	
	Headp AT2020	hones			
Confi	gure		Set Def	ault 💌	<u>P</u> roperties
			ок	Cancel	Apply



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				×
General Levels	Enhancements	Advanced	Spatial sou	nd	
Headphones			46	Balance	
		ок	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	ł				×
Playback	Recording	Sounds	Communications		
Select a	recording d	levice bel	ow to modify its	settings:	
	Microp AT2020 Defaul				
<u>C</u> onfi	igure		<u>S</u> et Def	ault 💌	<u>P</u> roperties
			ок	Cancel	Apply



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	Х
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 highquality 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.

J Microphone Properties	Х
General Listen Levels Advanced	
Default Format Select the sample rate and bit depth to be used when running in shared mode.	
1 channel, 24 bit, 48000 Hz (Studio Quality)          1 channel, 16 bit, 44100 Hz (CD Quality)          1 channel, 16 bit, 48000 Hz (DVD Quality)	
1 channel, 16 bit, 88200 Hz (Studio Quality) 1 channel, 16 bit, 96000 Hz (Studio Quality) 1 channel, 24 bit, 44100 Hz (Studio Quality) 1 channel, 24 bit, 48000 Hz (Studio Quality)	
1 channel, 24 bit, 88200 Hz (Studio Quality) 1 channel, 24 bit, 96000 Hz (Studio Quality)	
Restore <u>D</u> efaults	
OK Cancel Apply	

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".

Settings							_	×
	R user1 Local Account Sign In		OneDrive Sign In		Windows Update Last checked: 1 minute ago	Rewards Sign In	Web browsing Recommended settings	
			Find a setting		R			
	stem play, sound, notifications, wer		Devices Bluetooth, printers, mouse		Phone Link your Android, iPhone	$\oplus$	Network & Internet Wi-Fi, airplane mode, VPN	
	sonalization kground, lock screen, colors		Apps Uninstall, defaults, optional features	8	Accounts Your accounts, email, sync, work, family	©. A≠	Time & Language Speech, region, date	
	<b>ming</b> ox Game Bar, captures, Game de	Ģ	Ease of Access Narrator, magnifier, high contrast	Q	Search Find my files, permissions	A	Privacy Location, camera, microphone	
Vir Wir	date & Security ndows Update, recovery, kup							

### 5 Select "Sound".

← Settings		1 <u>1</u>	×
வ் Home	Sound		
Find a setting     ∅       System <ul> <li>Display</li> <li>dØ Sound</li> <li>Notifications &amp; actions</li> <li>∅ Focus assist</li> <li>∅ Power &amp; sleep</li> <li>Storage</li> </ul>	Output         Choose your output device         Leadphones (AT2020USB-X)         Selected here. Customize app volumes and devices in advanced sound sources to the source so	Related Settings Bluetooth and other devices Sound Control Panel Microphone privacy settings Ease of Access audio settings Help from the web Setting up a microphone Fixing sound problems	
다. Storage	Input	Give feedback	
H Multitasking	Choose your input device		
Projecting to this PC Shared experiences	Microphone (AT2020USB-X)  Certain apps may be set up to use different sound devices than the one		
Clipboard	selected here. Customize app volumes and devices in advanced sound options. Device properties		
Remote Desktop	Test your microphone		
① About	A 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. 22) to configure the settings.

← Settings		( <u> </u>		×
බ Home	Sound			
Find a setting	Output	Related Settings Bluetooth and other device	5	
System	Headphones (AT2020USB-X)	Sound Control Panel		
Display	Certain apps may be set up to use different sound devices than the one selected here. Customize app volumes and devices in advanced sound	Microphone privacy setting		
회》 Sound	options.	case of Access addio settin	93	
Notifications & actions	Device properties Master volume	Help from the web		
J Focus assist	↓) 100	Setting up a microphone Fixing sound problems		
O Power & sleep	▲ Troubleshoot			
📼 Storage	Manage sound devices	Get help		
더 Tablet	Input	-		
티 Multitasking	Choose your input device			
Projecting to this PC	Microphone (AT2020USB-X)			
X Shared experiences	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.			
🛱 Clipboard	Device properties			
> Remote Desktop	Test your microphone			
① About	▲ Troubleshoot			
	Manage sound devices			
	Advanced sound options			

## Microphone privacy settings

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

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

← Settings		- 🗆 X
බ Home	Sound	
Find a setting	Output Choose your output device Headphones (AT2020USB-X)	Related Settings Bluetooth and other devices Sound Control Panel
다 Display 40) 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
<ul> <li>Notifications &amp; actions</li> <li>Focus assist</li> </ul>	Device properties Master volume (1)) 100	Help from the web Setting up a microphone
<ul> <li>(¹) Power &amp; sleep</li> <li>□ Storage</li> </ul>	Toubleshoot Manage sound devices	Fixing sound problems
Tablet	Input	Give feedback
日 Multitasking	Choose your input device 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	
Remote Desktop     About	Test your microphone	
	▲ Troubleshoot       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     ρ       Privacy     Windows permissions	Allow access to the microphone on this device 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. Derying access blocks Windows features. Microsoft Store apps, and most desktop apps from accessing the microphone. Microphone access for this device is on Change	Know your privacy options Learn how this setting impacts your privacy. Learn more Privacy dashboard Privacy statement
A General	Allow apps to access your microphone	Give feedback
<ul> <li>Inking &amp; typing personalization</li> <li>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.	
H Activity history	On Some desktop apps may still be able to access your microphone when settings on this page are off. Find out why	ľ
App permissions 杰 Location	If an app is using your microphone, you'll see this icon:	
Camera	Choose which Microsoft Store apps can access your microphone	
Voice 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	

**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		_	×
යි 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		
A <sup>()</sup> Speech	Take a Test Off		
Inking & typing personalization			
P Diagnostics & feedback	Voice Recorder Off		
日 Activity history	Xbox Console Companion Off		
App permissions	Xbox Game Bar On		
占 Location			
O Camera	Allow desktop apps to access your microphone Some apps and Windows features need to access your microphone to		
D Microphone	work as interesting resources are to access your introductor to work as interesting of this setting here might limit what desktop apps and Windows can do.		
Uvice 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			
g <sup>R</sup> Contacts	Sort by: Name 🗸		
Calondar			 ~

### Microphone property settings

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

← Settings		- 🗆 X
බ Home	Sound	
Find a setting	Output Chaose 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	Microphone privacy settings Ease of Access audio settings
Notifications & actions	options. Device properties Master volume	Help from the web
J Focus assist	d∗) 100	Fixing sound problems
<ul> <li>Power &amp; sleep</li> <li>Storage</li> </ul>	A Troubleshoot Manage sound devices	Get help
Tablet	Input	
H Multitasking	Choose your input device Microphone (AT2020USB-X)	
Projecting to this PC     Shared experiences	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.	
D Clipboard	Device properties	
>< Remote Desktop	Test your microphone	
① About	Troubleshoot Manage sound devices Advanced sound options	

1 In the "Sound" window, select "Sound Control Panel".

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".

谢 Sound	1				×
Playback	Recording	Sounds	Communications		
Select a	playback de	evice belo	w to modify its s	ettings:	
	Headp AT2020 Defaul				
<u>C</u> onfi	gure		<u>S</u> et Defa	ault 🔽	<u>P</u> roperties
			OK	Cancel	<u>A</u> pply



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.

Readphones 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".

谢 Sound					×
Playback	Recording	Sounds	Communications		
Select a	recording d	evice bel	ow to modify its	settings:	
ł	Microp AT2020 Default				
<u>C</u> onfi <u>c</u>	gure		<u>S</u> et Defa	ault 🔽	<u>P</u> roperties
			OK	Cancel	Apply



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 Apply	У

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 highquality 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.

J Microphone Properties	×
General Listen Levels Advanced	
Default Format Select the sample rate and bit depth to be used when running in shared mode.	
1 channel, 24 bit, 48000 Hz (Studio Quality)         1 channel, 16 bit, 44100 Hz (CD Quality)         1 channel, 16 bit, 48000 Hz (DVD Quality)         1 channel, 16 bit, 48000 Hz (Studio Quality)         1 channel, 16 bit, 88200 Hz (Studio Quality)         1 channel, 16 bit, 96000 Hz (Studio Quality)         1 channel, 24 bit, 44100 Hz (Studio Quality)         1 channel, 24 bit, 48000 Hz (Studio Quality)         1 channel, 24 bit, 48000 Hz (Studio Quality)         1 channel, 24 bit, 96000 Hz (Studio Quality)         1 channel, 24 bit, 96000 Hz (Studio Quality)	
Restore Defaults     OK     Cancel	

**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".
- 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".
  - If you are using commercially available recording software to record audio, refer to "Microphone privacy settings" (p. 32) to configure the settings.

Sound	I				×
Playback	Recording	Sounds	Communications		
Select a	playback de	vice belo	w to modify its se	ettings:	
	Headp AT2020 Defaul				
<u>C</u> onfi	gure		<u>S</u> et Defa	ault 🔽	<u>P</u> roperties
			ОК	Cancel	<u>A</u> pply

**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	$\times$
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	I

### 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					>	<		
Playback	Recording	Sounds	Communications					
Select a playback device below to modify its settings:								
	Headp AT2020 Defaul							
<u>C</u> onfig	gure		<u>S</u> et Defa	ault 🔽	<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.

Readphones Properties						
General	Levels	Enhancements	Advanced	Spatial sou	und	
	phones			46	Balance	
			ОК	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".

谢 Sound	ł				×
Playback	Recording	Sounds	Communications		
Select a	recording d	evice bel	ow to modify its	settings:	
	Microp AT2020 Default				
<u>C</u> onfi	gure		<u>S</u> et Def	ault 🔽	<u>P</u> roperties
			OK	Cancel	Apply



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	Х
General Listen Levels Advanced	
General Listen Leves Advanced	
OK Cancel Apply	

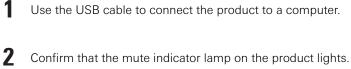
8 Select the "Advanced" tab, select the sample rate and bit depth under "Default Format", and then click "OK".

- With this product, you can select a sample rate of up to 96 kHz. Selecting a high sample rate may result in highquality 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.

Hicrophone Properties	$\times$
General Listen Levels Advanced	
Default Format Select the sample rate and bit depth to be used when running in shared mode.	
1 channel, 24 bit, 48000 Hz (Studio Quality)           1 channel, 16 bit, 44100 Hz (CD Quality)           1 channel, 16 bit, 48000 Hz (DVD Quality)           1 channel, 16 bit, 88200 Hz (Studio Quality)           1 channel, 16 bit, 96000 Hz (Studio Quality)           1 channel, 24 bit, 44100 Hz (Studio Quality)           1 channel, 24 bit, 44100 Hz (Studio Quality)           1 channel, 24 bit, 48000 Hz (Studio Quality)           1 channel, 24 bit, 96000 Hz (Studio Quality)           1 channel, 24 bit, 96000 Hz (Studio Quality)           1 channel, 24 bit, 96000 Hz (Studio Quality)	
Restore <u>D</u> efaults	9
OK Cancel Apply	

## **Computer settings (macOS)**

# macOS Catalina, macOS Big Sur, and macOS Monterey



• 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".

•••	< >	iiii Syste	m Preferenc	es	(	Q Search	
9		our Apple ID , the App Store,	and more.				Sign In
General	Desktop & Screen Saver	Dock & Menu Bar	Mission Control	Siri	Q Spotlight	Language & Region	Notifications
Internet Accounts	Users & Groups	Accessibility	Screen Time	Extensions	Security & Privacy		
Software Update	Network	Bluetooth	Sound	Printers & Scanners	Keyboard	Trackpad	Mouse
Displays	Sidecar	Energy Saver	Date & Time	Sharing	Time Machine	Startup Disk	

**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		
Input volu	device: ime: 및 및 및	
Input volu	ime: 🖳 📃	(

**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 se	ound input:	
Name	Туре	
Internal Microphone		
AT2020USB-X	USB	
Settings for the select		
Input	ted device: volume: 및 U	
Input	volume: 🖳	Ċ

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

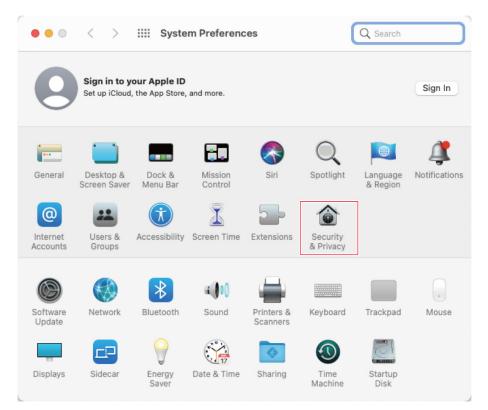
- If a device other than the product is being used to output sound, select this other device from "Select a device for sound output".
- You can use "Balance" to set the balance between the left and right volumes.
- Use "Output volume" to adjust the playback level from the computer.
- If you are using 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 se	ound output:	
Name	Туре	
Internal Sneakers	Ruilt-in	
AT2020USB-X	USB	
Settings for the select	ted device:	
	sted device: Balance: left right	
	Balance:	(1

#### 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 🚽
Photos	
Camera	
Le Microphone	Indicates an app that has used your location within the last 24 hours.
III Speech Recognition	
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 and the levels of the left and right input signals, configure the following settings.

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".

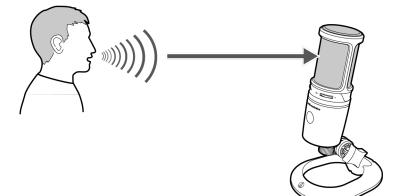
- Two types of the product are displayed, but select the one that shows "1 in / 0 outs".
- With this product, you can select a sample rate of up to 96 kHz. Selecting a high sample rate may result in highquality recorded audio data but will also make these files large.
- For stable recording with less 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.

•••	Audio Devices		
Built-in Microphone 2 ins / 0 outs Built-in Output 0 ins / 2 outs AT2020USB-X 1 1 in / 0 outs	AT2020USB-X 1 Clock Source: Default Source Format At,1 kHz 1 ch 16-bit Integer		?
AT2020USB-X 2 0 ins / 2 outs III III III III III III III IIII III	Channel Master S Master S Front Co Front Co All Channel All Chan	Aute	Thru
+ - • •			

# 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.

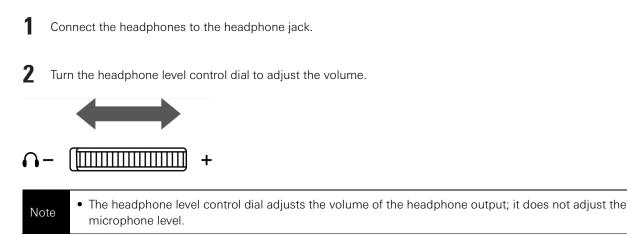
### Adjusting the microphone level

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.

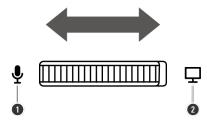
### **Connecting and using the headphones**

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 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.



- 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.

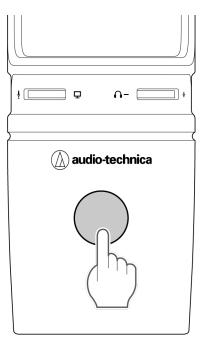
### Muting the microphone

Turn the muting of the microphone on/off.



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 red

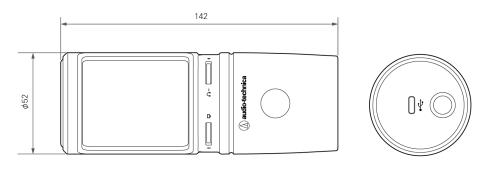
- The sampling rate setting differs from that set in the "Playback" or "Recording" tab on the Windows PC you are using or in the "Output" or "Input" tab on the Mac you are using. Match the sampling rate settings. For details on the settings, refer to "Computer settings (Windows)" (p. 8) or "Computer settings (macOS)" (p. 38).
- **?** 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)

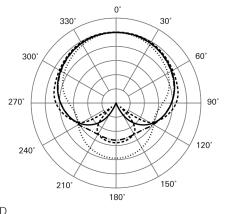
# **Specifications**

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

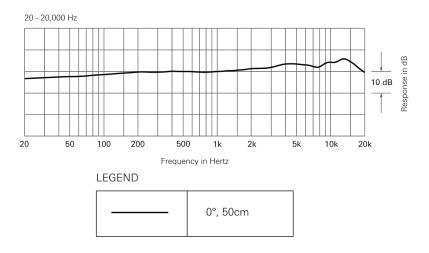
### **Polar pattern**



LEGEND

200 Hz 1 kHz 5 kHz 8 kHz	SCALE IS 5 DECIBELS PER DIVISION
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### **Frequency response**



## Trademarks

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