

Using Thinklabs One with Zoom Videoconferencing on PC/MacBook

Connection using an Audio Technica ATR2USB (recommended)

We recommend using an Audio Technica ATR2USB USB Audio device for connecting the Thinklabs One to your computers. This ensures consistent audio quality across all PCs and MacBooks, and provides a simple method for switching between stethoscope and built-in microphones during conference calls. The ATR2USB also facilitates local listening to the stethoscope by the caregiver at the patient end.

To connect Thinklabs One to your computer:

1. Connect the Audio Technica ATR2USB to a USB port on your computer.
2. Connect Thinklabs One to ATR2USB Mic Input (pink jack).
3. Connect the supplied earbud headphones (or headphones of your choice that have good bass response) to ATR2USB Headphone output (green jack).

You can now listen to the stethoscope via the headphones during a conference.

Connection using Thinklink (skip if using ATR2USB)

1. Your Thinklabs One includes a Thinklink connection kit, comprising the Thinklink connection box (with Source and Monitor switches) and various cables. Unpack this kit from the lower compartment of your Thinklabs One package.
2. Connect your Thinklabs One to the lower left jack on the Thinklink using the longer 3.5mm male-male cable.
3. Connect the earbud or other headphones to the upper left jack on the Thinklink.
4. Set the MONITOR switch to the left position, and the SOURCE switch to the middle position.
5. If your computer has a single headset audio jack, connect the short male-male audio cable to the headset jack on your computer, and the other side to the lower right jack on the Thinklink (rectangle icon). If your computer has a Mic/Line input jack and a separate headphone jack, connect the short male-male cable to the Mic/Line jack on your computer and the other side to the upper right jack (arrow icon) on the Thinklink.
6. On most newer computers, connecting a cable to the headset jack will automatically switch the audio source to the device connected to the audio jack. Removing the plug will automatically re-enable the built in microphone. Therefore, when you wish to use the stethoscope, connect the short cable as described in step 5. When you wish to use voice communications, unplug the stethoscope.

NOTES:

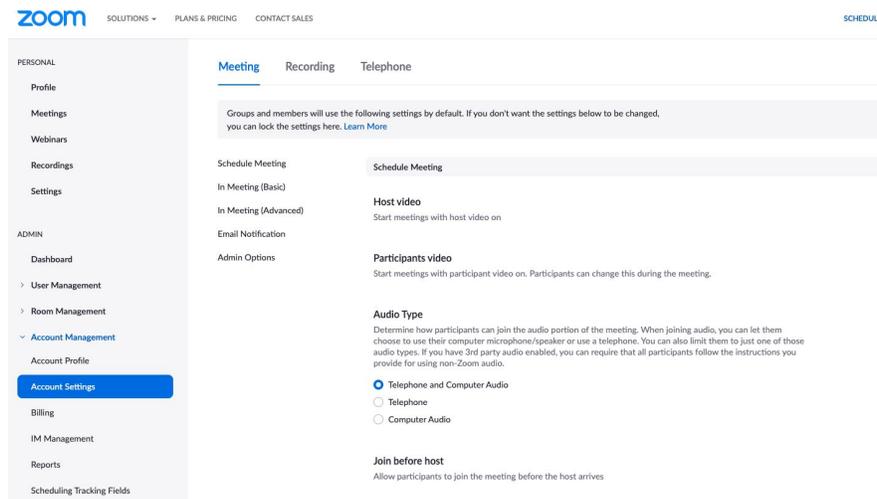
- a. If the sound levels are too quiet, set the SOURCE switch to the right position, rather than the middle. This will increase the stethoscope signal level into the computer audio input.
- b. If using a MacBook, setting the SOURCE switch to the right can result in problems with automatic switchover between internal or external audio sources. If switchover problems occur, keep the SOURCE switch in the middle position and do not allow the stethoscope level to get too loud. The MacBook unfortunately interprets loud inputs as disconnection of the headset jack. If this occurs, disconnect and reconnect the plug to the headset jack.

Setting up your Zoom Account

Many videoconferencing systems process sound to remove noise and echo, to facilitate voice communications. Such processing compromises the audio of a stethoscope, since such audio processing algorithms are designed for voice, not body sounds. Zoom provides the facility to disable such audio processing, by checking a “Preserve original sound” checkbox.

Your Zoom account must be a Business Account or other account having the option to “Preserve original sound.” To enable this option:

1. Go to zoom.us in your browser and log into your account.
2. Click on Account Management, then the Account Settings text.



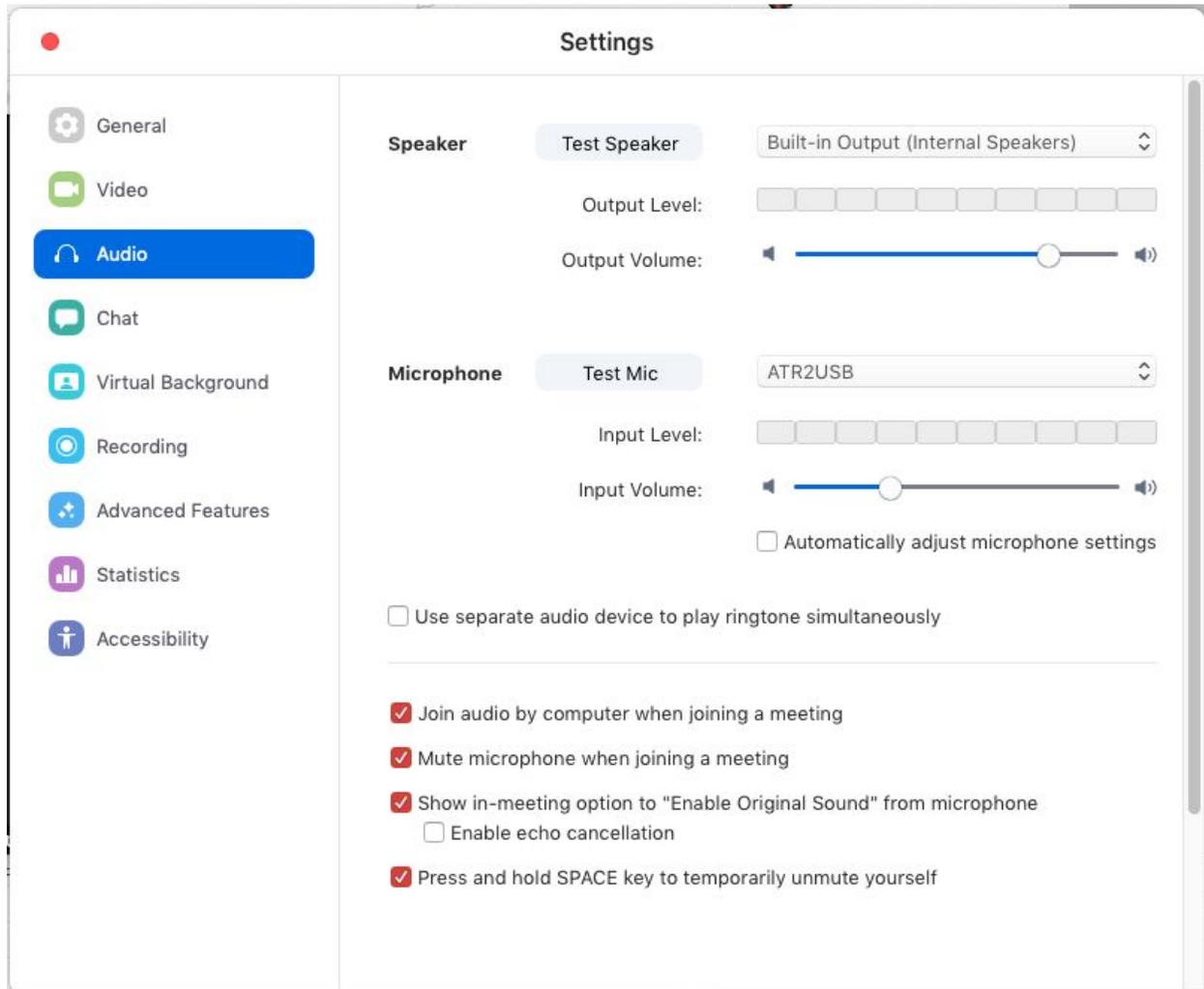
3. Scroll down the Account Settings Meetings tab screen to Audio Options. Check “Allow users to select original sound in their client settings”.



When the user logs in, this setting will allow your users to set their Zoom videoconference to allow for original sound (disables processing that diminishes stethoscope sound). If you do not see this audio option in your account, contact your Zoom rep to change your account to allow for this option.)

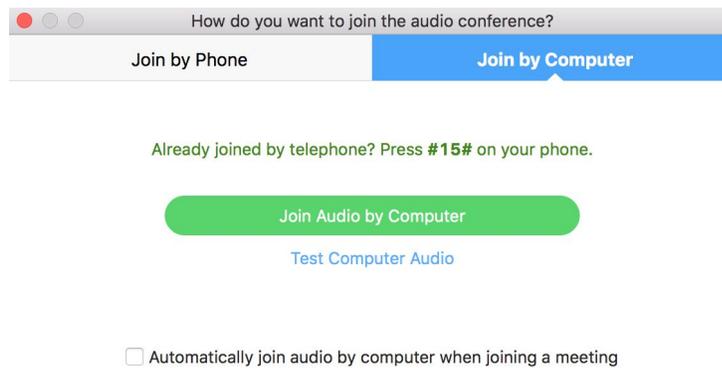
Allowing for Original Sound:

The user should go to the Zoom Audio Settings using the previously described method, and ensure the box next to “Show in-meeting option to ‘Enable Original Sound’ from microphone” is checked.

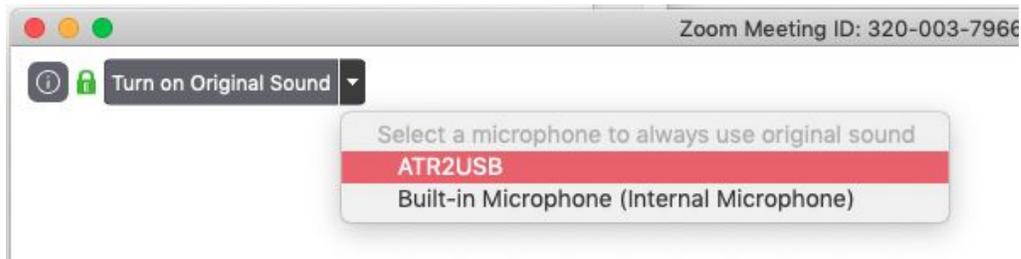


Controlling Stethoscope audio during a videoconference using Audio Technica ATR2USB audio interface

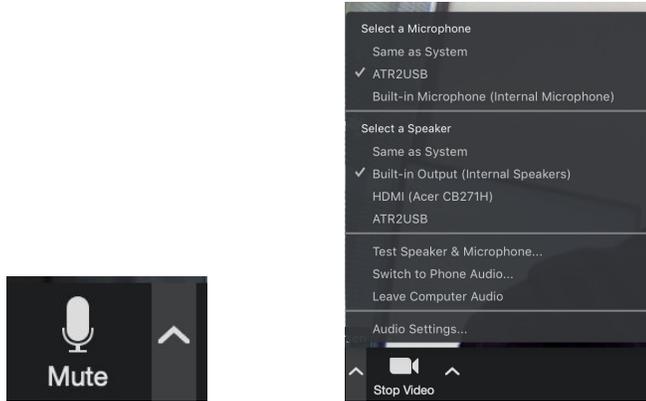
1. Launch your Zoom videoconference, with the stethoscope connected as described earlier.
2. If the following window appears, check “Automatically join audio by computer when joining a meeting” and click Join Audio by Computer.



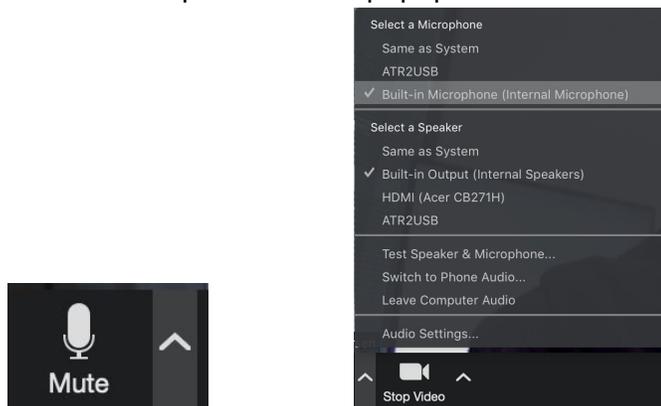
3. Click on "Turn on Original Sound", Select ATR2USB the “∇” next to “Turn on Original Sound”, Select ATR2USB



4. SELECTING STETHOSCOPE - To send the Thinklabs One stethoscope sound to the remote listener, Click the ^ arrow to the right of the mute microphone icon. Then select the ATR2USB in the popup menu in the “Select a Microphone” Section



5. SELECTING VOICE – To send the built-in mic voice sound to the remote listener, Click the ^ arrow to the right of the mute microphone icon. Then select the “Built-in Microphone (Internal Microphone)” in the popup menu in the “Select a Microphone” Section



6. Repeat steps 4 or 5 according to whether you need voice or stethoscope to be transmitted to the remote listener.

