



Apogee MiC 96k for Mac & Windows

User's Guide
Sept 2016



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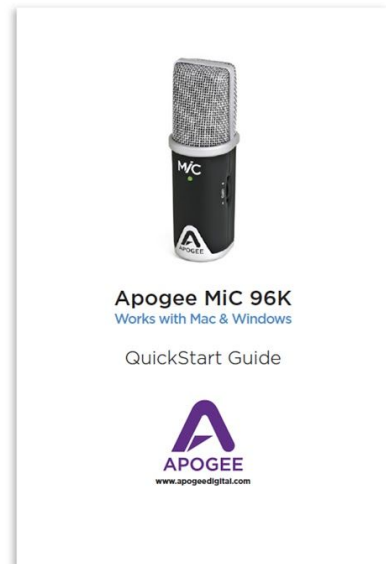
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Package Contents

The following items are included in the box:

- MiC 96k
- USB cable
- Tripod
- Microphone stand adapter
- Quick Start Guide

Note: Lightning iOS cable sold separately.



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- Receive important product update information by email
- Apogee KnowledgeBase and FAQs

MiC 96k Product Tour



System Requirements:

- | | |
|----------------------|--|
| Mac OS 10.9 or later | <ul style="list-style-type: none">• Computer: Mac, with an Intel processor• Memory: 2GB of RAM minimum• Connection/power: USB port on computer |
| Windows 10 or later | <ul style="list-style-type: none">• ASIO4ALL driver (recommended for certain professional applications)• Computer: Windows PC with Intel/AMD x86-64 processor• Memory: 4GB of RAM minimum• Connection/power: USB port on computer |

Note: Compatible with iOS devices with optional Lightning iOS cable

Getting Started

Apogee MiC 96k does not need any special software or drivers to be recognized by a Mac or Windows computer. When plugged into a USB port on the computer, the operating system will automatically recognize the MiC 96k.

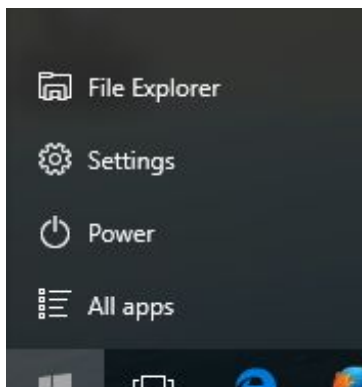
Windows Basics:

To select MiC 96k as your Window's Input Device:

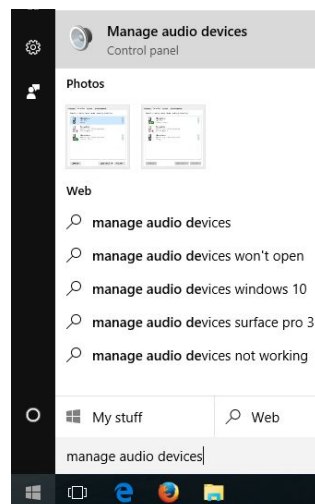
1. Connect MiC 96k to a USB port on your computer.

Note: When a connection is made, a blue light will illuminate on the MiC

2. Click the Start Menu



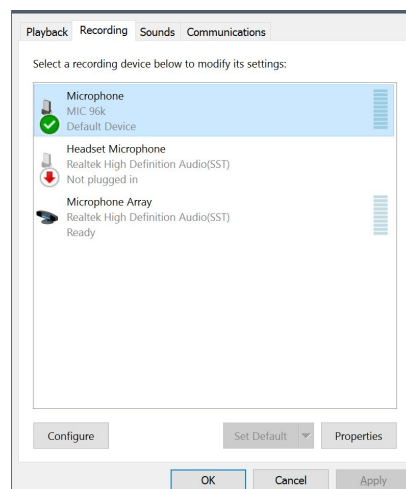
3. Type "Manage audio devices" and select it from the search results



4. In the Sound window that appears, click the "Recording" tab

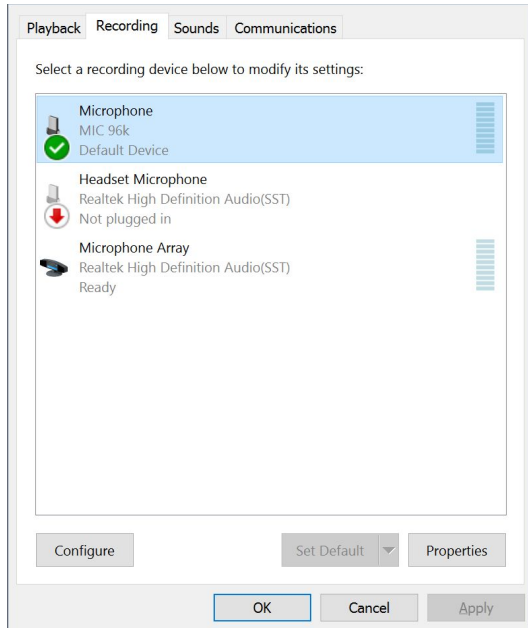
5. Select MiC 96k from the list

6. Click the "Set Default" button, then click OK to close the Sound window

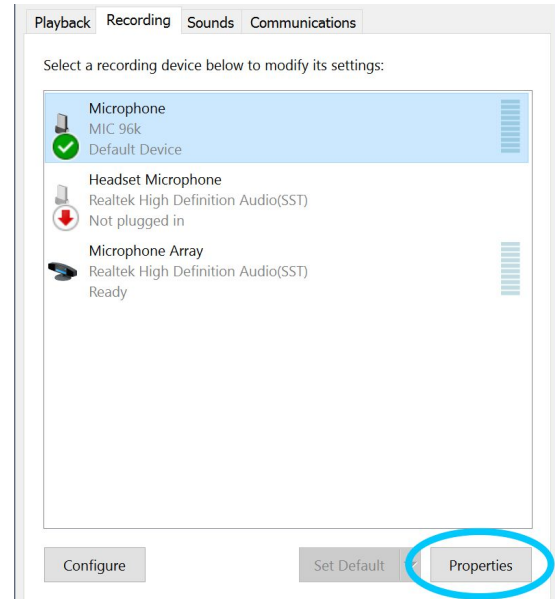


To Set the Sample Rate:

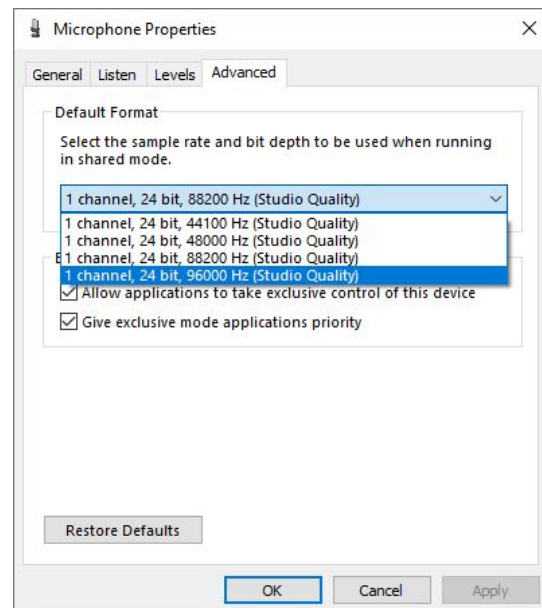
1. Go back to the “Recording” Tab of the Sound window.



2. Click to highlight the MiC 96k from the list, then click “Properties”.

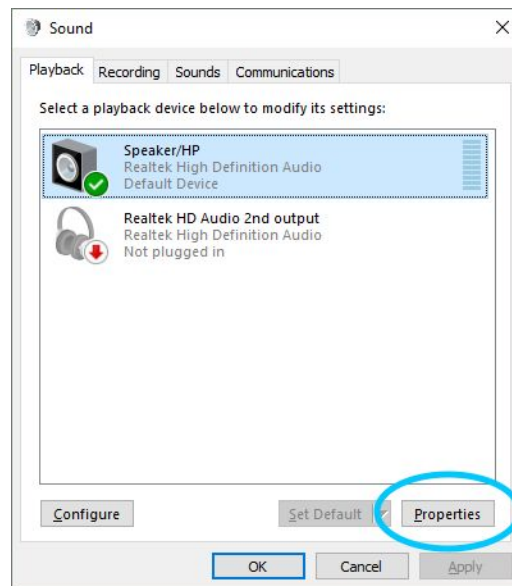


3. In the Microphone Properties dialog that appears, click the Advanced Tab.
4. In the Default Format section, select your desired sample rate from the dropdown box.
5. Click OK to close the Microphone Properties window

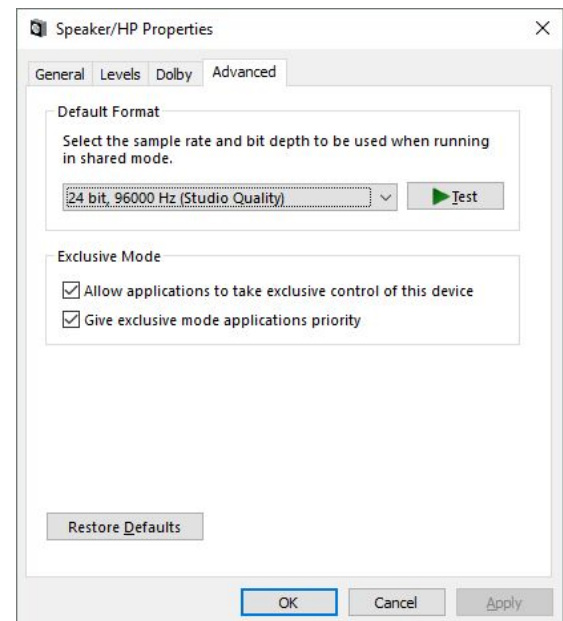


The computer's built-in sound card should be set to the same sample rate as the MiC 96k:

6. In the Sound window Playback tab, click to highlight the computer's built-in output and click Properties.



7. In the Properties window that appears, click the Advanced tab.
8. In the Default Format section, select the same sample rate the MiC 96k is set to.
9. Click OK to close the Properties window
10. Click OK again to close the Sound window.



Note: Some professional recording programs have their own audio options and will ignore the settings made in Windows Manage Audio Devices.

Mac Basics

To Select MiC 96k as your Mac's Audio Input Device:

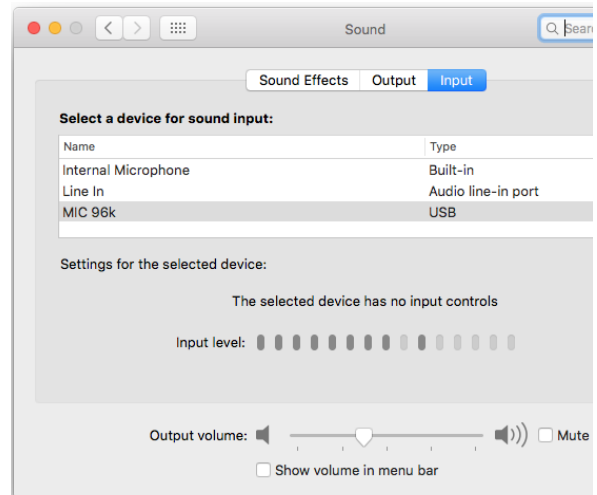
1. Connect MiC 96k to a USB port on your Mac computer.

When a connection is made, a blue light will illuminate on the MiC

2. Open Mac System Preferences > Sound and click the INPUT tab.

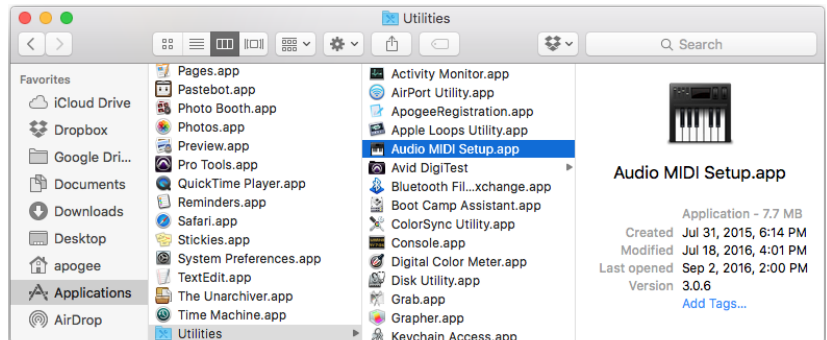
3. Select MiC 96k From the list.

The light on MiC will turn green and you will see the input level meter move with the signal. Use the knob on the side of the MiC to adjust the input Gain level.

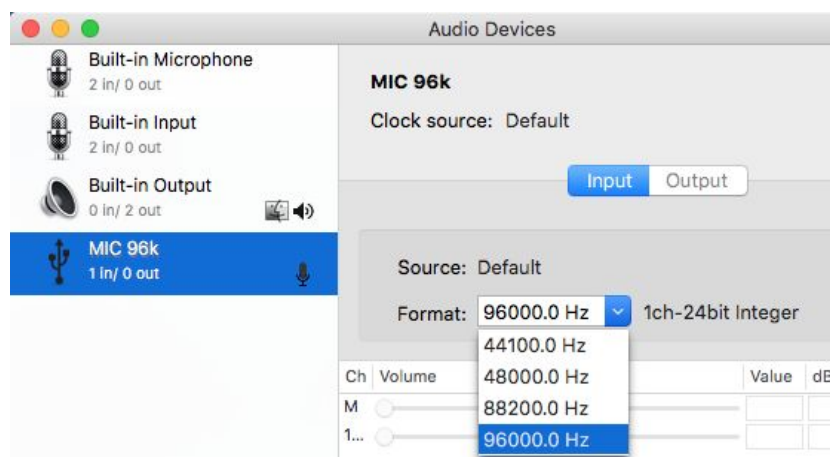


To Change the Sample Rate:

1. Open Audio MIDI Setup (located in your Mac's Applications > Utilities folder)



2. In the Audio Devices window, select MiC 96k from the list.
3. On the right, use the Format drop down box to select your desired sample rate



Recording with MiC 96k

Windows Recording

Explanation of Windows Drivers available

The Apogee MiC 96k can be used with two different Microsoft Windows audio drivers, and a 3rd party audio driver. Here are the differences between them:

Windows Drivers:

MME & DirectSound) - An older driver technology that is compatible with the most audio applications. Not recommended by Apogee because there will be high latency when monitoring.

WASAPI - A newer integrated low latency audio driver. Supported by few pro audio programs but provides excellent performance (Audacity, REAPER, Pro Tools). Apogee recommends using this driver when possible.

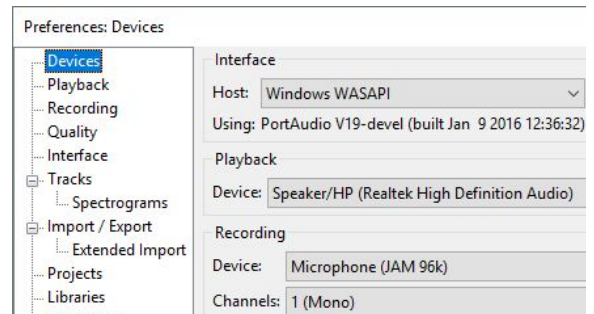
Third Party ASIO Driver:

ASIO4All - An alternative low latency audio driver that uses driver technology developed by Steinberg. Must be installed separately and is free to the public. Many pro audio programs support ASIO (Cubase, Ableton Live, Reason, etc.). Apogee recommends the use of this driver.

Download and install this driver from www.asio4all.com

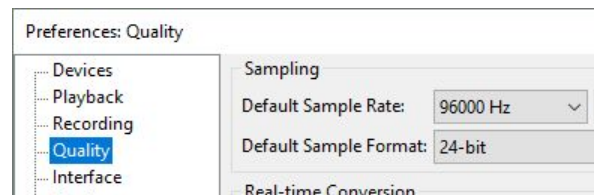
Record using Audacity and the WASAPI Driver

1. Open Audacity and go to Edit > Preferences
2. In Devices section, choose:
 - Host: Windows WASAPI
 - Playback Device: (Your computer's built-in output)
 - Recording Device: Microphone (MiC 96k)



3. In the Quality section, select the desired sample rate.

NOTE: This must be the same sample rate selected in Manage Audio Devices for both the MiC, and your audio output device.

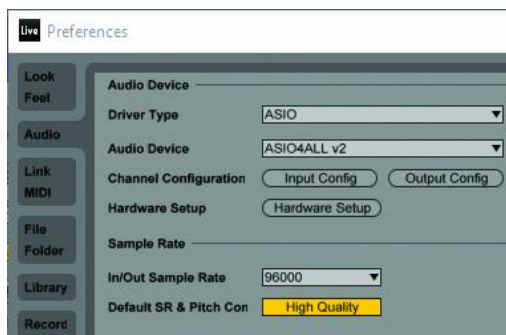


4. Click OK to close the Preferences window.
5. Adjust the Gain knob on the side of Apogee MiC 96k to set the input level.
6. Press record!

Using the ASIO4ALL Driver with Ableton Live

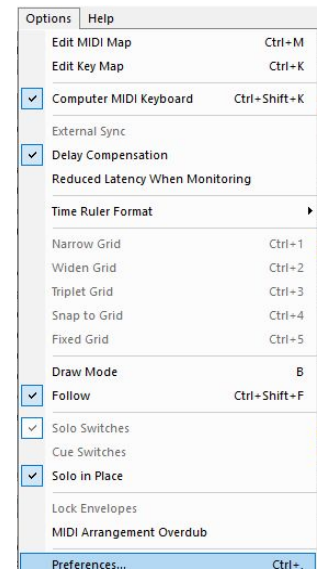
Make sure you've installed the ASIO4ALL driver from www.asio4all.com

1. Open Ableton Live and go to the Options > Preferences menu
2. In the Audio section choose:



- Driver Type: ASIO
- Audio Device: ASIO4ALL v2

- Sample Rate: This should match the sample rate selected in Manage Audio Devices for both MiC 96k and your audio output device.

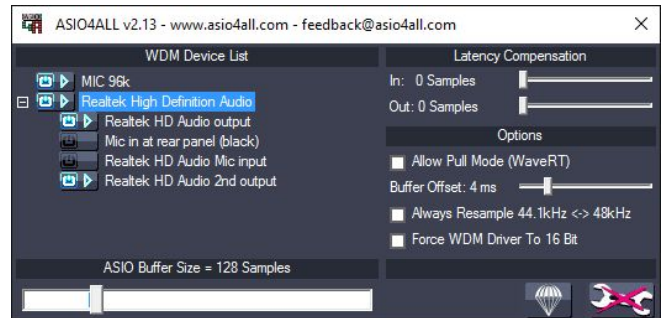


3. In this same menu, click Hardware Setup to open the ASIO4ALL setup window.

- Click the ADVANCED button



- Enable both MiC 96k, and your output device
- Adjust the ASIO Buffer size:
 - Start with 128 samples, but it may need to be adjusted depending on your computer's capabilities:



Note:

- Higher Buffer: *More stable audio performance, but higher latency delay when input monitoring*
- Lower Buffer: *Less stable audio performance that could result in pops and clicks, but less latency delay when input monitoring*

- Close the ASIO4ALL Driver Window
- Close the Ableton Preferences window

Note: When properly selected, the light on MiC 96k will turn green

- In an audio track, select input 1.

- Click the Monitor "IN" button to hear your live input signal in your output



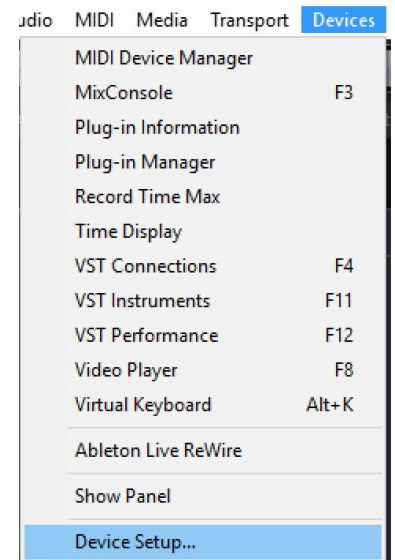
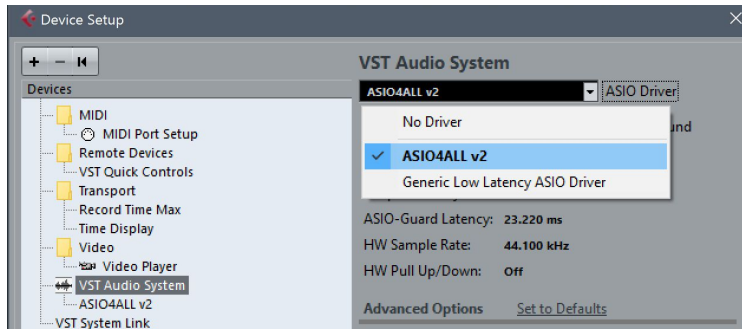
- Adjust the Gain knob on the side of Apogee MiC 96k to set the input level and you will see input level meter movement in this Ableton track.

This indicates you are receiving input signal into Ableton and can record!

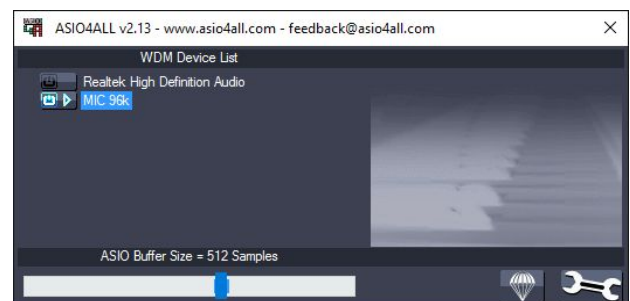
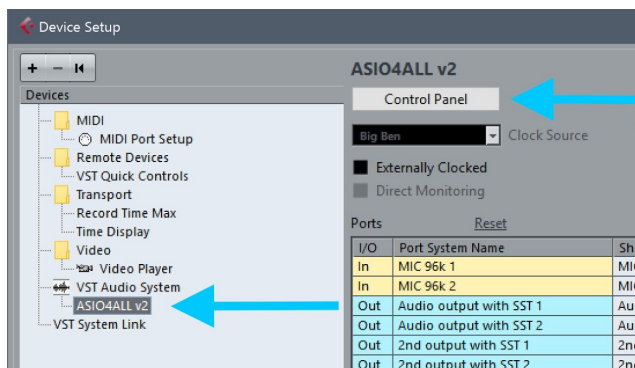
Using MiC 96k to record with Cubase

Make sure you've installed the ASIO4ALL driver from www.asio4all.com

1. Open Cubase and go to the menu Devices > Device Setup
2. Select VST Audio system on the left column, then choose ASIO4ALL v2 from the ASIO Driver drop down.



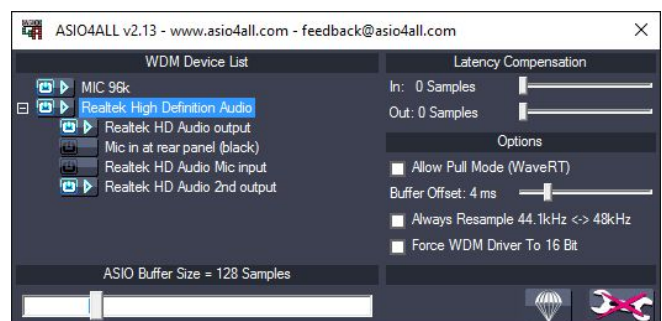
3. On the left Column, select ASIO4ALL v2 then click Control Panel to open the ASIO4ALL setup window



4. Click the ADVANCED button



5. Enable both MiC 96k, and your output device
6. Adjust the ASIO Buffer size:
 - Start with 128 samples, but it may need to be adjusted depending on your computer's capabilities:



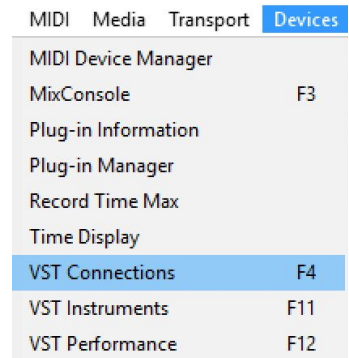
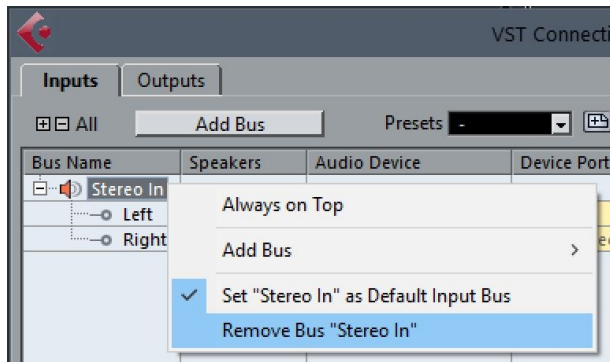
Note:

- Higher Buffer: More stable audio performance, but higher latency delay when input monitoring
- Lower Buffer: Less stable audio performance that could result in pops and clicks, but less latency delay when input monitoring

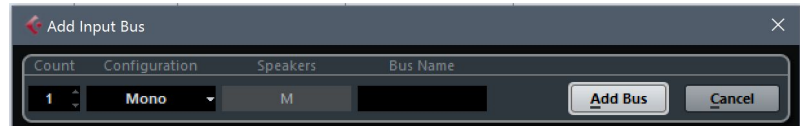
7. Close the ASIO4ALL Driver Window, then click OK to close the Device Setup window.

8. Now go to the Devices > VST Connections menu.

9. In the INPUTS tab, right-click the stereo bus and click Remove Bus.

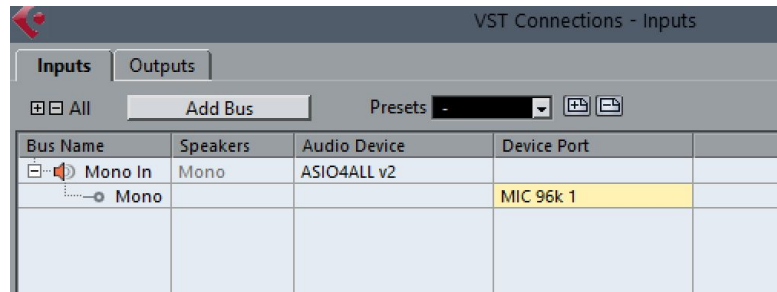


10. Click the Add Bus button and choose 1, mono, then Add Bus.



11. You now have a single input bus.

12. Close the VST Connections Window.

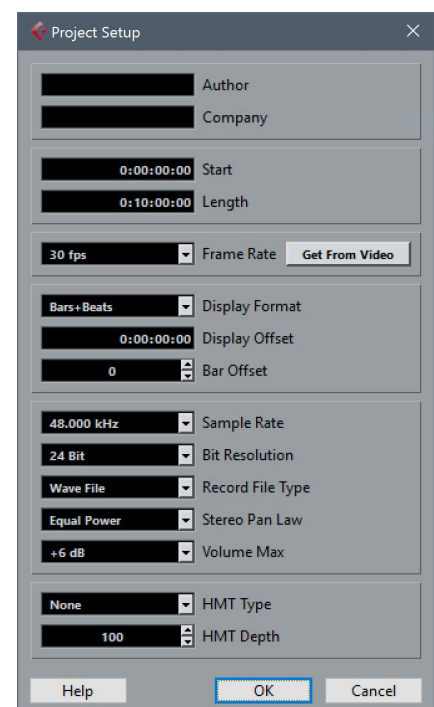


13. Go to menu Project > Project Setup.

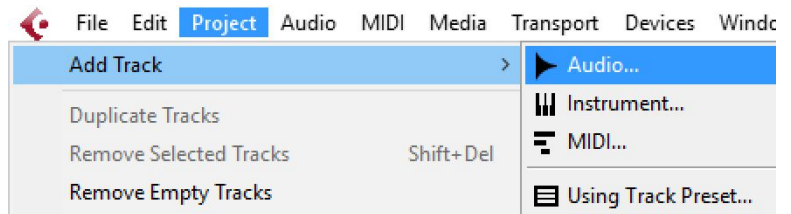
14. Set the Sample Rate to the same value you had set the MiC and computer's built-in output to in the Manage Audio Devices section.

15. Set Bit Resolution to 24-bit or higher.
All other settings are optional and your choice

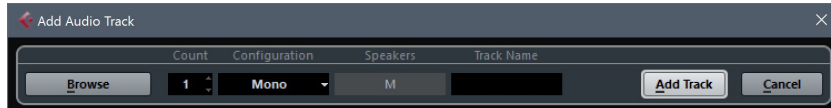
16. Click OK to close the Project Setup window.



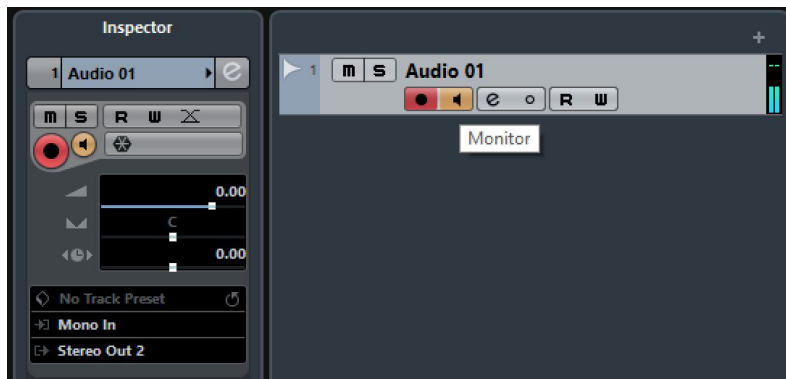
17. Go to Project > Add Track > Audio



18. Choose a mono track configuration.



19. Make sure the Input is set to Mono In, then enable the record button.



If you want to monitor as you record, enable the Monitor button as well

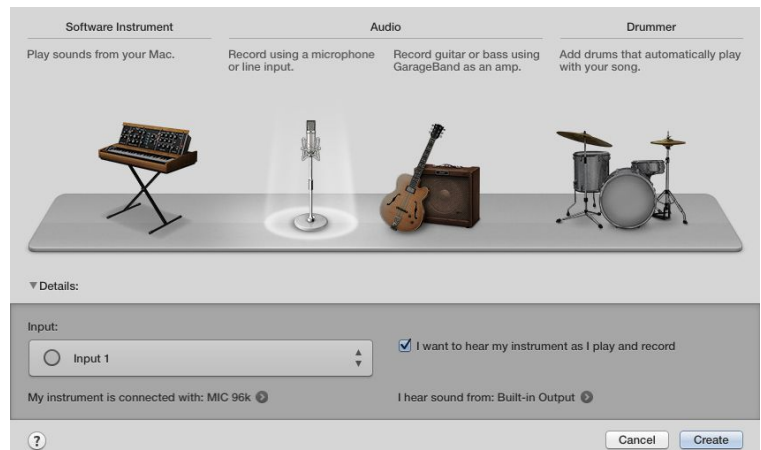
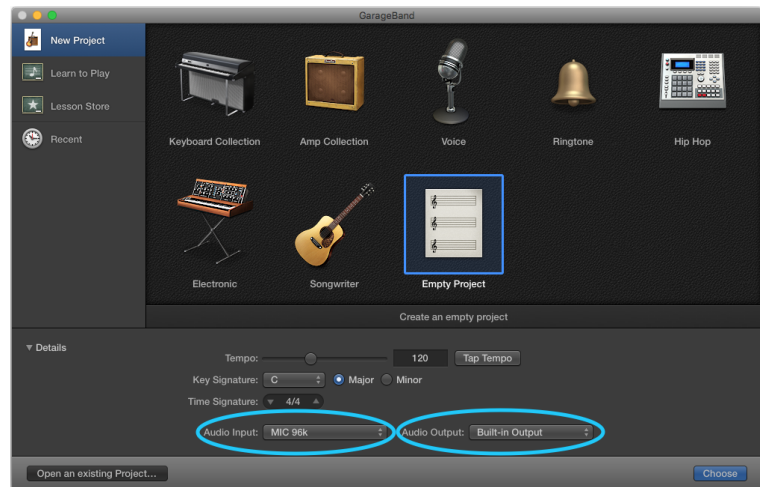
20. Adjust the Gain knob on the side of Apogee MiC 96k to set the input level and you will see input level meter movement in this Cubase track.

This indicates you are receiving input signal into Ableton and can record!

Mac Recording

Using MiC 96k to record in Garageband

1. Open Garageband and create a New Empty Project
2. In the Details expansion, ensure MiC 96k is selected as the Audio Input device, and Built-In Output is selected and the Audio Output device, then click Choose.
3. In the Track dialog that appears, select an Audio track, then click Create.



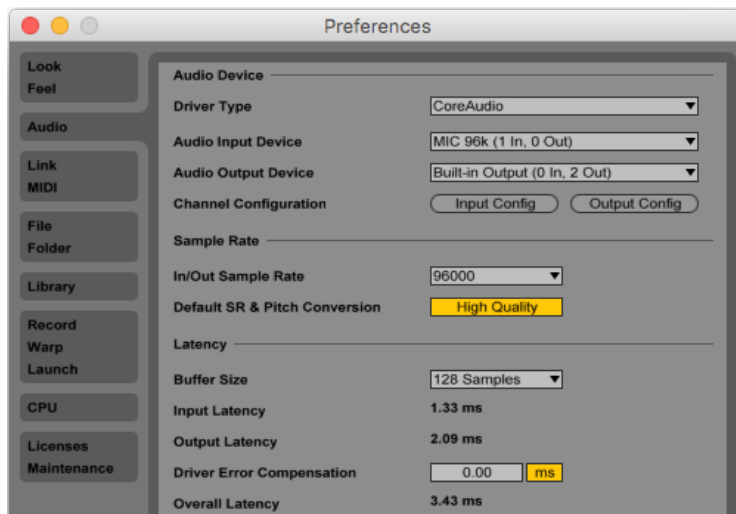
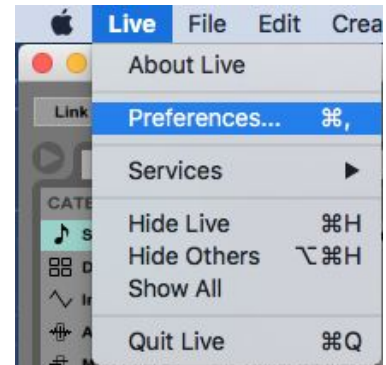
4. Adjust the Gain knob on the side of Apogee MiC 96k to set the input level and you will see input level meter movement in the Garageband track.



This indicates you are receiving input signal into Garageband and can record!

Using MiC 96k to record in Ableton Live

1. Open Ableton Live and go to the Live > Preferences Menu



2. Select MiC 96k as the Audio Input Device, and Built-in Output as the Audio Output Device
3. Select your desired Sample Rate
4. Set your Buffer size. Start with 128 Samples and readjust based on your computer's performance.

Note:

- Higher Buffer: *More stable audio performance, but higher latency delay when input monitoring*
- Lower Buffer: *Less stable audio performance that could result in pops and clicks, but less latency delay when input monitoring*



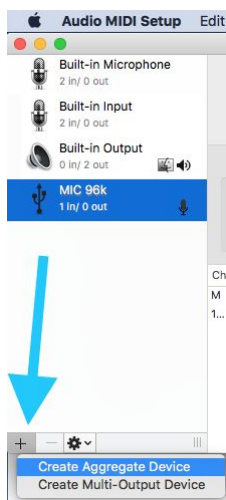
5. In an Audio track, select Input 1
6. Adjust the Gain knob on the side of Apogee MiC 96k to set the input level and you will see input level meter movement in this Ableton track.

This indicates you are receiving input signal into Ableton and can record!

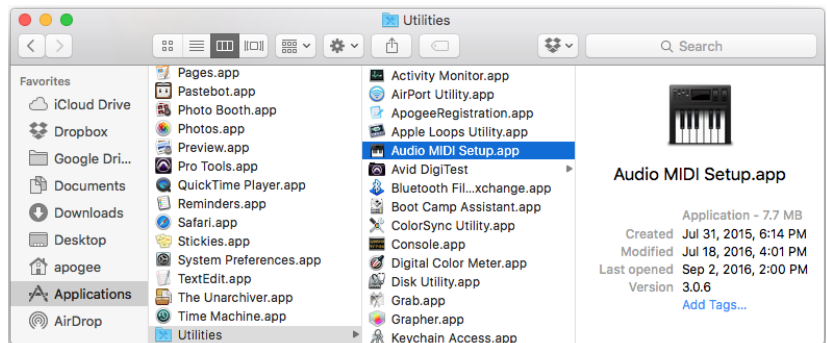
Record using Apple's Aggregate Device feature (Pro Tools, Studio ONE, etc.)

Some audio recording programs do not have the ability to select a different input and output device. In this case you will need to select an "Aggregate Device" that combines Apogee MiC 96k and your computer's built-in output. Here's how to create and use Apple's aggregate device feature:

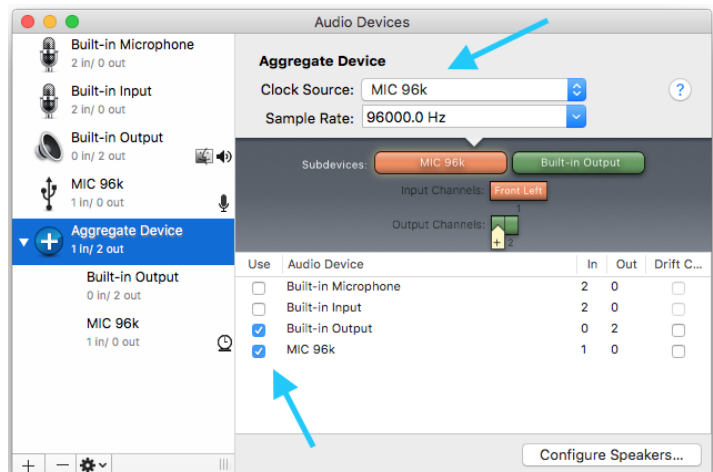
1. Open Audio MIDI Setup (located in your Mac's Applications > Utilities folder)



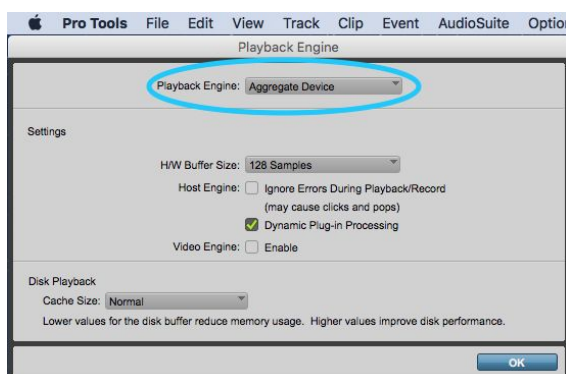
2. At the bottom of the Audio Devices window, Click the plus "+" button and select Create Aggregate Device.



3. Check the box for both MIC 96K and Built-in Output to be used in the Aggregate Device.
4. Set the Clock Source to MIC 96k



5. Select this Aggregate device in your audio recording program.



Additional Support

For More Information:

- Apogee KnowledgeBase and FAQs
- Apogee Product Registration
- How to contact Apogee Technical Support

Visit: www.apogeedigital.com/support