



USB 500 Rack and Mac DAW Quickstart Guide

First make sure that your device is selected as the input and output device on your Mac.

Go to *Macintosh HD-Applications-Utilities-Audio MIDI Setup*.

Note: You may want to drag this icon to your desktop toolbar so you always have quick access to it.

When you open Audio MIDI Setup, the *Audio Devices* screen will appear. In the column on the left you will see 500 RACK.

Right click on 500 RACK and select *Use this device for sound input*.

Right click on 500 RACK again and select *Use this device for sound output*.

THESE INSTRUCTIONS ASSUME THE CONNECTION OF A MICROPHONE TO SLOT 1, A MICROPHONE PREAMP LOADED IN TO SLOT 1 OF THE USB 500 RACK. IF YOU'RE USING A CONDENSER MICROPHONE, BE SURE TO TURN ON THE 48V PHANTOM POWER BUTTON ON THE PREAMP MODULE. SLOT 1 MODULE INPUT SOURCE MUST BE SET TO XLR AND THE USB SOURCE SWITCH MUST BE SET TO MOD.

Adobe Audition

Under *Audition-Preferences*, select *Audio Hardware*.

Under *Device Class* select *Core Audio* for Mac or *ASIO* for Windows.

Set the *Default Input* and *Output* to your USB 500 Rack.

Set *Master Clock* to your USB 500 Rack.

Set *Clock Source* to *Internal*.

Set *I/O buffer size* to 64 samples. (If you hear pops and clicks in your audio, come back and set the *I/O buffer size* to 128. Set this as low as possible without hearing pops and clicks.)

Select a *Sample Rate* from 44.1kHz to 96kHz.

Under *Audition Preferences*, select *Audio Channel Mapping*.

Default Stereo Input

Device = USB 500 RACK

Channels 1(L) (mono) USB 500 RACK Analog 1

Channels 2(R) USB 500 RACK Analog 2

Output

Device = USB 500 RACK

Channels 1(L) USB 500 RACK Analog 1 or USB 500 Rack Headphone L

Channels 2(R) USB 500 RACK Analog 2 or USB 500 Rack Headphone R

Under File, select New-Multitrack Session

For Track 1, select Mono input as (01M) USB 500 RACK Analog 1

For Track 1, select output as Master.

Scroll down below the tracks and find the Master section.

Set output to Stereo-(01S) USB 500 RACK Analog 1.

On Track 1, click the (R) Record button, which will turn red.

On Track 1, click the (I) Input button, which will turn orange.

You should now see signal on the input meters and hear yourself in the USB 500 Rack headphones or speakers connected to the rear panel analog outputs.

Apple GarageBand

Launch the application and select New Project.

Click on the microphone icon labeled Voice and click Choose.

Name the new project, assign a folder location and click Create.

Select GarageBand-Preferences.

Select the Audio/MIDI tab.

Set Audio Output to USB 500 RACK. Click YES to "Change the audio driver?"

Set Audio Input to USB 500 RACK. Click YES to "Change the audio driver?"

For GarageBand '09 Set Optimize For "Minimum delay when playing instruments live-Small buffer size."

Exit Preferences.

At the bottom right of the GarageBand screen:

Set Input Source to *Mono 1 (USB 500 RACK)*

Set Monitor to *ON*.

You should now see signal on the input meters and hear yourself in the USB 500 RACK headphones or speakers.

Click the red record button to record your voice.

Cockos Reaper

Select Reaper-Preferences. Then select Audio-Device.

Under Audio Device Settings, select USB 500 RACK as your Audio Device.

Set *Request Sample Rate* from 44.1kHz to 96kHz.

Set *Request Block size* to 64 samples. (If you hear pops and clicks in your audio, come back and set the *I/O Request Block Size* to 128. Set this as low as possible without hearing pops and clicks.)

Click *Apply* and then click *OK*.

Go to *File- New project*.

Go to *Track-Insert New Track*.

The new track will appear in the edit window AND the mixer window below. Below the fader in the edit window for the new track is a *dropdown list* that allows you to select a mono or stereo input for the track. It should default to *USB 500 RACK Analog 1*. If not, you can select it.

Below in the mixer window is the *Master Fader*. Click on the *I/O* button just above the fader. *USB 500 RACK Analog 1/ USB 500 RACK Analog 2* should come up as the default output. If not, you can delete what has come up as default and select *USB 500 RACK Analog 1/ USB 500 RACK Analog 2*.

Exit the *Outputs for Master Track* screen.

Click on the *Speaker icon* of Track 1 in the mixer section to monitor the recording.

Click the *red circle* (Track Arm) on Track 1.

You should now see signal on the input and output meters and hear yourself in the USB 500 RACK headphones or speakers.

PreSonus Studio One

Create a *New Song*.

Under *Styles*, select *Empty Song*.

Select *Sample Rate* and *Resolution* and click *OK*.

Click *Studio One-Preferences*. Then select *Audio Setup*.

Click the *Audio Device drop down list* and select *Aphex USB 500 RACK*.

Set *Device Block Size* to *64 samples* and click *OK*.

Click *Track-Add Audio Track (mono)*.

In *Track 1* click the *Record Input tab* currently labeled *None* and select *Audio I/O Setup*.

Under *Inputs* click the *add (mono) tab* and click *Apply* then click *OK*.

In *Track 1* click the *Record Input tab* currently labeled *None* and select *Input 1*.

Click on the *Speaker icon* to monitor the recording.

Click the *red circle* (Track Arm) on your track.

You should now see signal on the input and output meters and hear yourself in the USB 500 Rack headphones or speakers.

Harrison Mixbus

Launch *Mixbus* and the *Session Control* window will open.

Select the *Audio Setup* tab.

Under *Device* set *Driver* to *Core Audio*, set *Interface* to *USB 500 RACK*, select a *sample rate* and set the *Buffer Size* to *64* (If you hear pops and clicks in your audio, come back and set the *I/O Buffer Size* to *128*. Set this as low as possible without hearing pops and clicks.)

Then click on the *new session* tab, name the file and give it a folder location.

Click *New*.

Click *Track-Add Track/Bus*.

Leave the default settings and click *Add*.

Click the *red circle* (Track Arm) on your track.

You should now see signal on the input and output meters and hear yourself in the USB 500 Rack headphones or speakers.

Steinberg Cubase

Launching Cubase will bring up the *Steinberg Hub*.

Under Projects, select Empty.

Use the default location, name your new project and click *Create*.

Go to *Devices-Device Setup*.

Under *VST Audio System*, select *USB 500 RACK* from the drop down menu.

You will be prompted, "Do you want to switch driver?" Click *Switch*.

Set *Audio Priority* to *Boost*.

Click *Apply*, then click *OK*.

Go to *Devices-Device Setup* again.

In the left column of *Devices*, click on *Aphex USB 500 RACK*.

In the new window on the right, click on *Control Panel*.

Set the *Buffer Size* to 64 Samples. (If you hear pops and clicks in your audio, come back and set the *I/O Buffer Size* to 128. Set this as low as possible without hearing pops and clicks.)

Click *Close*, then click *OK* on the bottom right.

Go to *Devices-VST Connections*.

Under *Inputs*, click *Add Bus*.

Select *1, mono* and click *Add Bus*. You will now see Mono In, Audio Device USB 500 RACK, Device Port USB 500 RACK Analog 1.

Click the *Outputs* tab.

You should see Stereo Out, Audio Device USB 500 RACK, Device Port USB 500 RACK Analog 1 and USB 500 RACK Analog 2.

Go to *Project-Add Track-Audio*. Leave the default settings and click *Add Track*.

Click the *red circle* (Track Arm) on your track.

Click on the *Speaker* icon.

You should now see signal on the input and output meters and hear yourself in the USB 500 Rack headphones or speakers.

Avid Pro Tools

Launch Pro Tools and create a blank session.

Click the *arrow* next to *Session Parameters* and the window will expand to show *Audio File Type, Sample Rate, etc.*

Select a *Sample Rate* and for I/O settings select *Stereo Mix*.

Give your session a name and location and click *Save*.

Go to *Setup-Playback Engine*.

Use the *top dropdown menu* to select *500 RACK*.

Selecting this playback engine will automatically save and close your session. *Click Yes*.

Click OK and your session will close and reopen.

Go back to *Setup-Playback Engine*.

Set *H/W buffer size to 64 samples* and click *OK*.

Go to *Setup-I/O*.

Click the *Input tab*. Select the current all paths and click *Delete Path*.

Click *Default*.

The path will now show *500 RACK Slot 1-2, 500 RACK Slot 3-4 and 500 RACK S/PDIF 1-2*.

Click the *Output tab*. Select the all current paths and click *Delete Path*.

Click *Delete* on the popup window.

Click *Default*.

The path will now show *500 RACK Analog L/R, 500 RACK Headphones L/R, 500 RACK Slot 1-2, 500 RACK Slot 3-4 and 500 RACK S/PDIF 1-2*.

Click *OK*.

Go to *Track-New*.

Create 1 Mono Audio Track in Samples and click *Create*.

In the Mix window, locate the input and outputs for your new track.

For input select Interface- 500 RACK SLOT 1.

For output select 500 RACK Headphones L/R (stereo) or Analog L/R for speakers

Click the *red circle* (Track Arm) on your track.

You should now see signal on the input and output meters and hear yourself in the USB 500 RACK headphones or speakers.

Logic Pro X

Launch Logic Pro X, select *New Project* and click on the *Empty Project sheet music icon*. In the bottom right corner click on *Choose*.

Click on the microphone icon for Record using a microphone or line input.

Below, select Input 1 and Output 3+4.

Click the check box for “I want to hear my instrument as I play and record.”

Click the check box for “Prepare new audio tracks for immediate recording.”

Click the arrow to the right of “I hear sound from:”

This brings up the Preferences screen.

Select 500 RACK as the Input and Output device.

Set the I/O Buffer Size to 64 samples.

Click Apply Changes and exit the Preferences screen.

Back on the previous screen click Create.

The new track should open armed for recording with monitoring on.

You should now be able to hear yourself in the headphones or speakers.

Ableton Live 9

Launch Live and go to *File-New Live Set*.

Go to *Live-Preferences* and click the *Audio tab*.

Set *Driver Type* to Core Audio.

Under *Audio Input Device* select 500 RACK (6 in, 10 out)

Under *Audio Output Device* select 500 RACK (6 in, 10 out)

Click Input Config.

Select 1 (mono) & 2 (mono) and click OK.

Click Output Config.

Select 3 / 4 (stereo) and click OK.

Select *sample rate* and set *Buffer Size* to 64 Samples.

Exit the *Preferences* window.

Open the mixer view.

At the bottom far right, click on the *I-O icon*.

The default set provides 2 MIDI tracks and 2 Audio tracks.

Find the audio track called 3 Audio.

The default should show *AUDIO FROM EXT* In, input 1.

Under MONITOR, click on AUTO.

Under the *Master Output* select 3 / 4.

Click the red track arm button and you should be able to hear yourself in the headphones or headphones.