

AUDACITY

SOFTWARE GUIDE



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GENERAL SOFTWARE NOTES

Your USB turntable is compatible with any recording software that supports USB Audio devices. We have included Audacity, however you may prefer to use one of a variety of the 3rd party software packages that are also available.

Audacity is free software, distributed under the General Public License (GPL). More information, as well as open source code, can be found on the included CD or on the web at <http://audacity.sourceforge.net>.

Audacity works on both Windows (98 and greater) as well as Mac OS (X and 9.2+). Software for Linux can be found on the Audacity website.

Go to <http://audacity.sourceforge.net/help/tutorials> for additional tutorials.

The website also has information for separate add-ons to Audacity to enhance performance and features.

AUDACITY SOFTWARE INSTALLATION

Before Starting the Software

Make sure that your USB turntable is plugged into the computer with the supplied USB cable, and both the computer and the turntable are plugged in and on. Refer to the included USB turntable quick start instruction manual before proceeding with software installation.

REMOVE THE CLEAR PLASTIC CARTRIDGE (NEEDLE) COVER

For your first recording, we recommend that you test your settings on short section (a minute or less) of recorded audio so you can become familiar with the the process before recording a full LP.

To Install Software (PC)

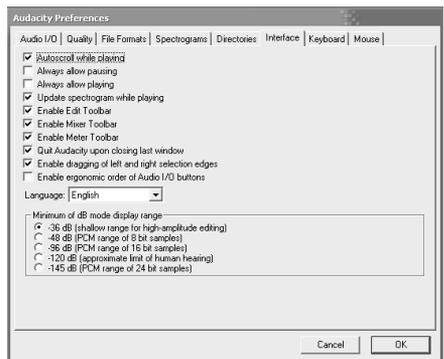
1. Plug your turntable into an AC power outlet and use the included USB cable to connect the **USB** port on your turntable to the USB port on your computer.
2. Turn your computer on if it is not on already. Allow it to boot fully.
3. Turn on the turntable by pressing the **power button** near the base of the tonearm.
4. Your computer might display a message saying that it has detected a new device, and that it is available to use. Depending on your system, this message may or may not appear. This is normal.
5. Insert the **CD** that came with your USB turntable into your computer's CD drive.
6. A window will pop up automatically. Click on the [**INSTALL**] icon next to "Audacity".

To Install Software (MAC)

1. Plug your turntable into an AC power outlet and use the included USB cable to connect the **USB** port on your turntable to the USB port on your computer.
2. Turn your computer on if it is not on already. Allow it to boot fully.
3. Insert the included **CD** into your computer's CD drive.
4. Open the CD icon on the desktop.
5. Drag the installation folder for Audacity to your hard drive. We recommend that you move the folder to your **Applications** folder.
6. A window will come up which shows the files copying.
7. Once the files are done copying, EJECT the CD.

SELECTING YOUR LANGUAGE

Before you begin using the software, note that Audacity's controls and menus can be displayed in a variety of different languages. Go to **Edit | Preferences** and click on the **Interface** tab. Under the **Language** pull-down tab, you can select your preferred language.



CONFIGURING MICROSOFT WINDOWS VISTA TO WORK WITH THE USB TURNTABLE

1. Close all programs that are open on your computer.
2. On the bottom left of your screen, select the **Start** menu.
3. Select **Settings** then **Control Panel**.



4. In the window that opens, find and double-click the **Sound** control panel. (If you don't see a choice called "Sound", choose the Switch to Classic View option in the panel on the left of the window, and the **Sound** Control Panel should become available on the right.)
5. Select the **Recording** tab at the top of the Sound Control Panel.
6. Under the **Recording** tab, choose **Microphone - USB Audio Codec** as the default device. The USB Audio Codec represents your Turntable.
7. Click on the **Set Default** button to confirm your choice.



8. Now select the **Playback** tab at the top of the Sound control panel.
9. Under the **Playback** tab, choose the device that you would like your computer's audio to come out of.

Your computer's audio outputs may appear as:

Speakers – High Definition Audio Device

or

Headphones – High Definition Audio Device

or both, depending on the hardware installed in your computer.



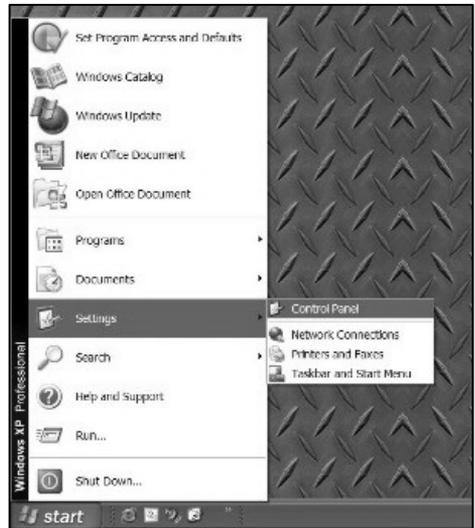
Click on the device that best matches your desired audio setup and click **Set Default** to confirm your selection.

Note: Do NOT choose "Speakers - USB Audio Codec" as your playback device. USB Audio Codec represents your turntable, and can only be used as recording input, not a playback output.

10. Click **Set Default** to confirm your choice.
11. Click **Apply** if possible, then click **OK** to close the Control Panel.
12. Click **Apply** (if possible), then click **OK**.
13. Make sure that your computer's speakers (if not built-in) are plugged into your computer's audio output and turned on so you can hear your recording. If your computer has a headphone output, you can use headphones in-place of speakers.

CONFIGURING MICROSOFT WINDOWS XP TO WORK WITH THE USB TURNTABLE

1. Close all programs that are open on your computer.
2. On the bottom left of your screen, select the **Start** menu.
3. Select **Settings** then **Control Panel**.
4. In the window that opens, find and double-click the **Sounds and Audio Devices** control panel. (If you don't see a choice called Sounds and Audio Devices, choose the Switch to Classic View option in the panel on the left of the window, and the Sounds and Audio Devices should become available on the right).
5. Select the **Voice** tab at the top of the Sounds and Audio Devices control panel.
6. Under **Voice Playback**, choose your internal sound card as the default device. This varies by computer but should not be set to "USB Audio Codec, Modem, or Microsoft Sound Mapper."
7. Under **Voice Recording**, select **USB Audio Codec** for your default device – this is the USB turntable.



8. Select the **Audio** tab at the top of the Sounds and Audio Devices control panel.
9. Under **Sound Playback**, choose your internal sound card as the default device. This varies by computer but should not be set to "USB Audio Codec, Modem, or Microsoft Sound Mapper."
10. Under **Sound Recording**, select **USB Audio Codec** for your default device – this is the USB turntable.
11. Check the box titled **Use only default devices**.



12. Click **Apply** (if possible), then click **OK**.
13. Make sure that your computer's speakers (if not built-in) are plugged into your computer's audio output and turned on so you can hear your recording. If your computer has a headphone output, you can use headphones in-place of speakers.

AUDACITY CONFIGURATION ON PC

1. Launch Audacity: Click on the **Start** menu on the bottom left of your screen. Select **All Programs**, then **Audacity**.
2. In Audacity, click on the **Edit** menu at the top of the screen.
3. Select **Preferences** from the Edit menu.

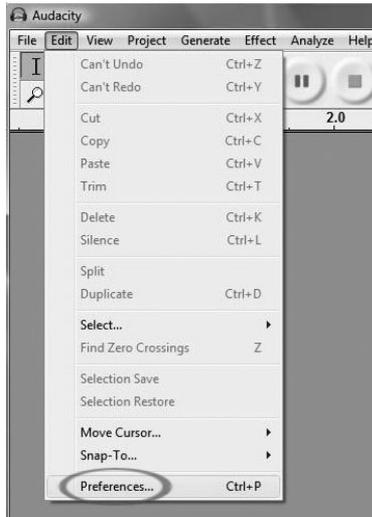


Figure 1: Select Preferences

The **Audacity Preferences** window will come up (Figure 2). Choose the **Audio I/O** tab from the top of the Preferences screen.

4. Set your **Playback Device** to your internal sound card. Since different computers have different internal sound cards, your selection may be different from the image below (Figure 2). The correct selection, however, will NOT be USB Audio Codec, Microsoft Sound Mapper or Modem.
5. Set your **Recording Device** to **USB Audio Codec**. This represents your turntable.

Note: The USB turntable may show up with a different name in the Preferences window. This may depend on your computer model and operating system. 99% of the time it will contain "USB" in the Name.

6. Set **Channels** to 2 (Stereo).
7. Check the box labeled **Software Playthrough**.

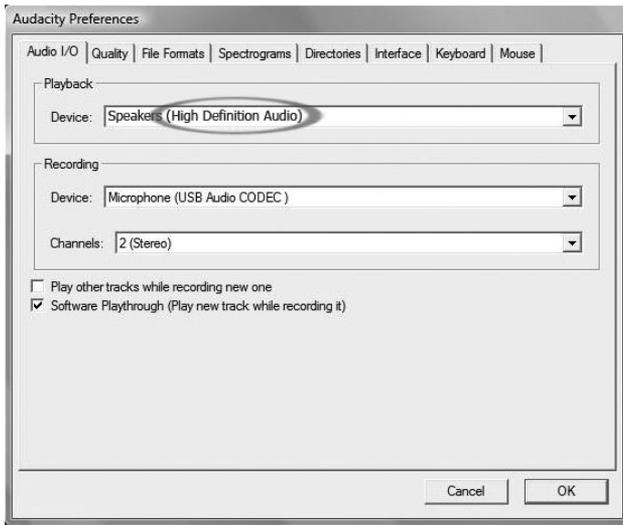
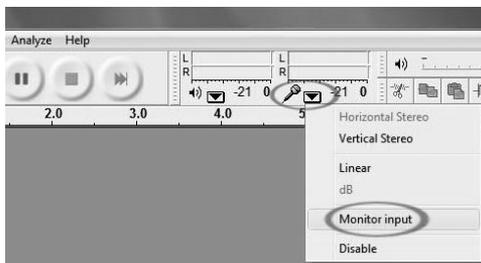


Figure 2: Select USB Audio Device from Preferences

8. Under the **Quality** tab, set the **Default Sample Format** to 16-bit.
9. Select **OK** to save your settings and close the Preferences window.
10. At the top of the main Audacity window, to the right of the play control buttons, you will see the input and output level meters (labeled L and R). Under the output level meter, is an icon that looks like a microphone. Next to the microphone is a black arrow that points down. Click this arrow and select **Monitor Input**. (If you don't see the input and output level meters, open your Preferences again as described above, select the Interface tab, and make sure that **Enable Mixer Toolbar** is checked.)

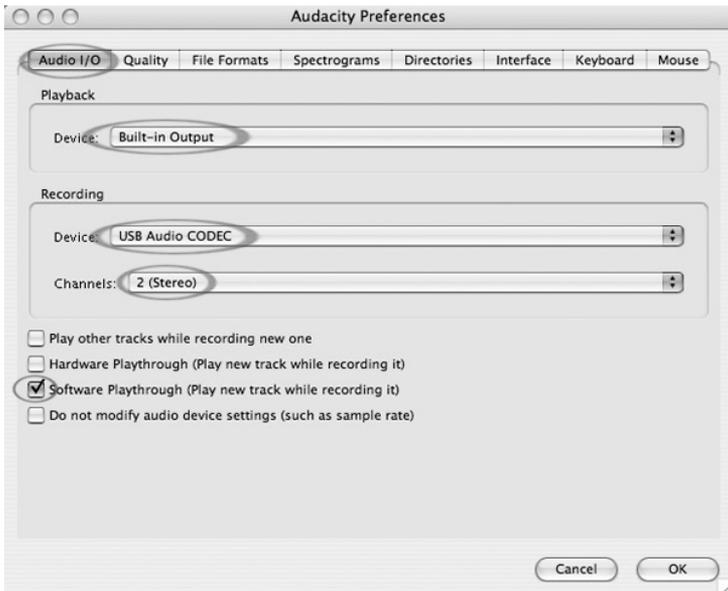


You should be all ready to record.

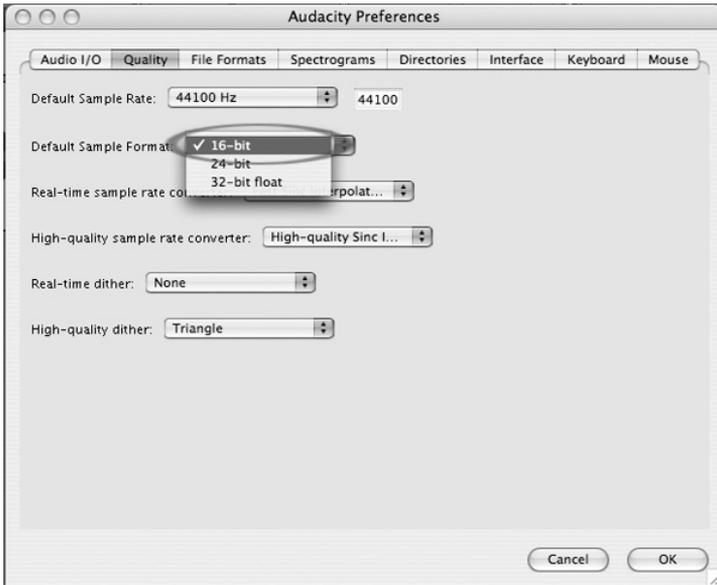
These settings will be saved when you exit. However, you will need to select **Monitor Input** from the input meter's drop-down menu each time you launch Audacity.

CONFIGURING AUDACITY FOR MAC OS 10.4 AND ABOVE

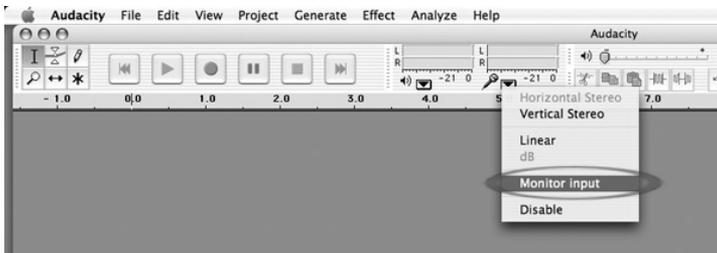
1. With the Audacity program open, click on the **Audacity** menu at the top of the screen.
2. Select **Preferences** from the Audacity menu.
3. Under the **Audio I/O** tab, set your **Playback Device** to Built-In Audio.
4. Under the **Audio I/O** tab, set your **Recording Device** to **USB Audio Codec**.
5. Under the **Audio I/O** tab, set your Channels to 2 (Stereo).
6. Check the box labeled **Software Playthrough**.



7. Under the **Quality** Tab, set the **Default Sample Format** to 16-bit.



8. Select **OK** to save your settings and close the Preferences window.
9. At the top of the main Audacity window, to the right of the play control buttons, you will see the input and output level meters (labeled L and R). Under the output level meter, is an icon that looks like a microphone. Next to the microphone is a black arrow that points down. Click this arrow and select **Monitor Input**. (If you don't see the input and output level meters, open your Preferences again as described above, select the Interface tab and make sure that **Enable Mixer Toolbar** is checked.)



These settings will be saved when you exit. However, you will need to select **Monitor Input** from the input meter's drop-down menu each time you launch Audacity.

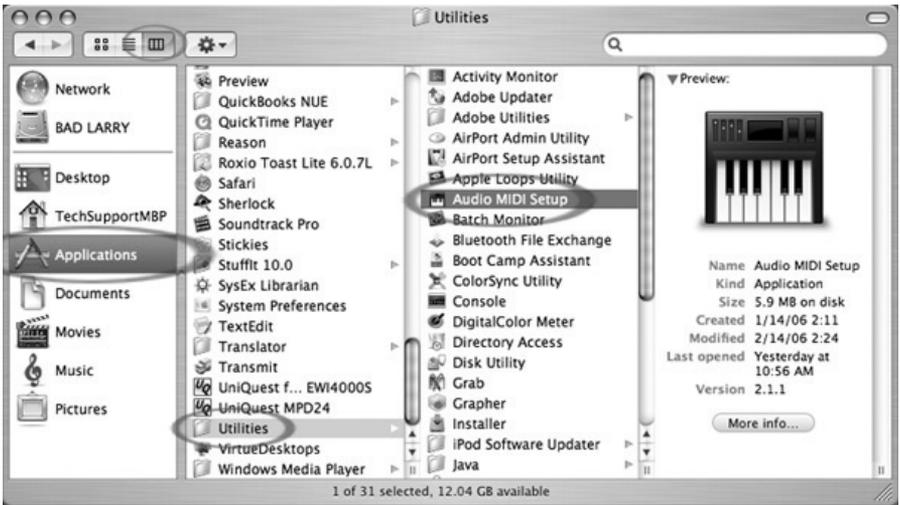
Other Important Macintosh Settings:

We have set up Audacity's separate playback and record preferences, but your Mac also has its own audio playback and record settings. When you first connect the turntable, the Macintosh will often select the "USB Audio Codec" as the audio input and output for your entire system. Since your turntable does not have speakers, audio will not be heard from your other programs until you tell your Mac not to use the turntable as an output device.

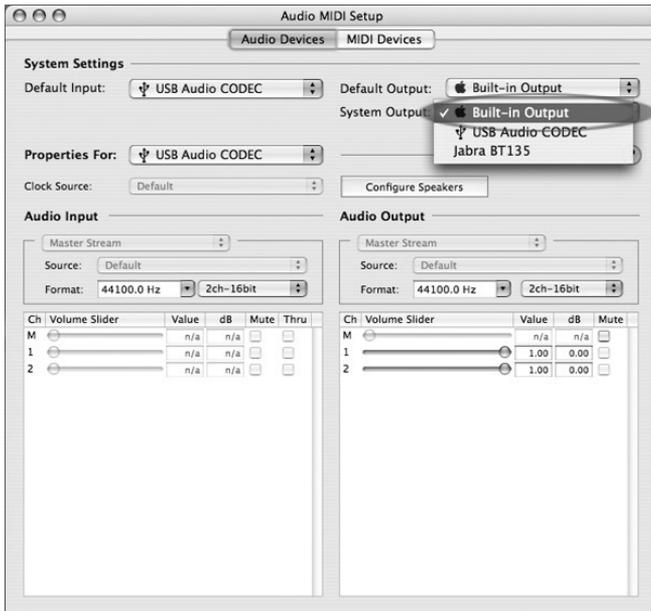
Here's how to change these settings so that your internal sound card will always be used for playback, whether or not your turntable is connected via USB:

The Audio MIDI Setup Utility:

1. Open your **Finder**.
2. Open your **Applications** folder.
3. In the Applications folder, open the **Utilities** folder.
4. In the Utilities folder, open the **Audio MIDI Setup**.



5. In the Audio MIDI Setup under **Audio Devices**, set:
The **Default Input** to USB Audio Codec
The **Default Output** to Built-in Audio or Built-in Output
The **System Output** to Built-in Audio or Built-in Output



Now, programs other than Audacity will only use your internal sound card for audio output.

RECORDING INTO THE COMPUTER

Note: We recommend that the first time you use the software you test with a small (1min or less) section of audio while recording. Once you feel comfortable with recording, then record a full song or LP.

1. Press the **Record** Button 
2. Start playback on the USB Turntable. You will see the waveform of the audio on the screen as it is recording. You will hear the audio coming from the output of your computer's soundcard.

No Audio? - go back to the preference menu (Figure 2) and make sure you have "Software Playthrough" selected and the speaker volume up on your computer. See troubleshooting at the end of this manual for more help.

3. Play through the entire track/album you desire to record.
4. Press **Stop** 
5. **SAVE YOUR FILE NOW** by clicking on **File** -> **Save Project**. Select the destination and file name for the project and click **Save**.
6. You have completed the recording process. The file you just saved to your computer is an Audacity Project file. This file can only be opened by Audacity. The following sections will guide you through some optional editing that may be performed, as well as how to divide this Audacity Project into separate Wav files which may be burned to CD or played in music programs such as iTunes and Windows Media Player.

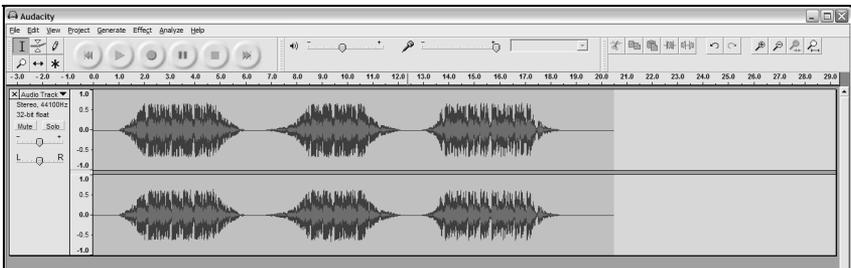


Figure 3: Recording Sample

ADJUSTING YOUR AUDIO LEVEL (optional)

1. Select your entire recording by selecting **Edit**, then **Select...**, then click **All**. You can also use Ctrl+A on a PC or APPLE+A on a Macintosh to quickly select all.

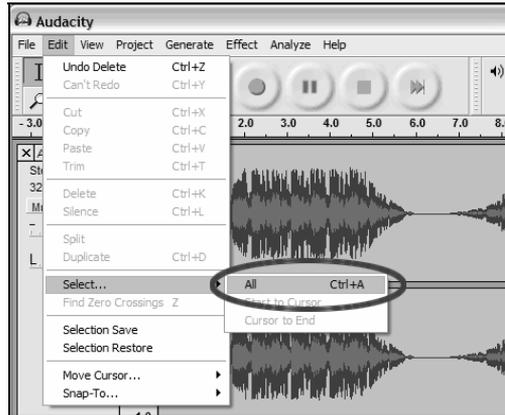


Figure 4: Select All

2. Select the **Effect** menu and choose the desired effect.
 - a. There are various types of effects which are described further in the software's help section as well as on the web (See Figure 5).
 - b. **Normalize** should be used to have the correct volume on the recording. (See Figure 6)

Please note:

It is a good idea to place the needle on the record, while it is stopped, **before** you begin the recording and press 'Play' on the turntable **after** you begin recording. If you place the needle down while the record is spinning and after you have begun recording, there might be audible clicks and pops. These clicks or pops might not allow the Normalize effect to bring the volume of the recording to the level that it should be.

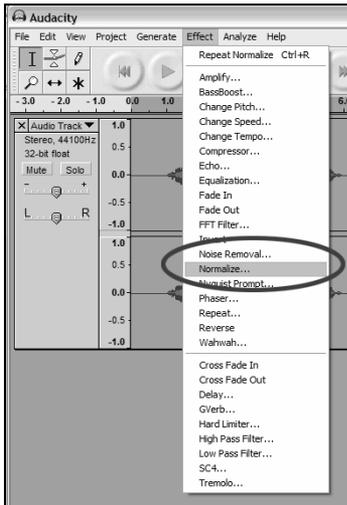


Figure 5: Effect Drop Down List

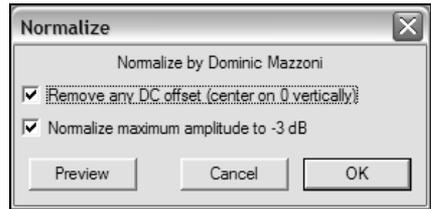


Figure 6: Normalize

CLEANING YOUR AUDIO (optional)

1. Drag the cursor over a portion of the audio track which contains noise. We recommend using the beginning or the end of a track where there is no music and only vinyl noise. (See Figure 7)
2. Select **Noise Removal** from the **Effect** drop down menu to bring up the Noise Removal window. (See Figure 8)
3. Click **Get Noise Profile**. The Noise Removal window will now close automatically.
4. Select the entire track of audio you wish to remove noise from. If you wish to clean up the entire recording use **Select All** under the **Edit Menu**. (See Figure 4)
5. Repeat Step 2 to bring up the Noise Removal Window.
6. Adjust the amount of audio that you would like to filter by moving the **slider** in the Noise Removal window. We recommend using the minimum noise removal for optimum sound.
Note: you can preview the audio before removing the noise by clicking on 'Preview'.
7. Click on **Remove Noise**.

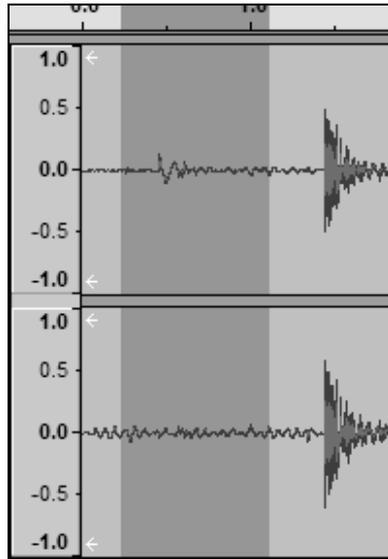


Figure 7: Selecting Noise in Track

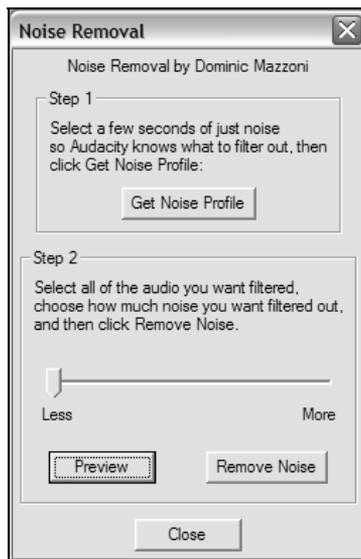


Figure 8: Noise Removal Window

Additional Editing Notes:

- Audio levels may vary based on the cartridge (needle), tone arm counter weight, vinyl, and computer set up. We recommend always normalizing your audio.
- Similar to word processing, you may delete unwanted audio by dragging over the section, which will highlight, then pressing **Delete**. This may include excessive hiss, silence before/after songs, or skips/scratches.
- You must select the noise profile before you can remove the noise from a track. If you select actual audio for the noise profile, the computer may remove all of your audio. See Step 1.
- Once the Noise Profile is set, it will save the profile until you restart the application. In other words, the software must learn what the noise profile is only when you first start the software. You do not need to get the noise profile for every recording once it is set up.

HIGH-SPEED RECORDING OF YOUR VINYL (optional)

Using the USB turntable with Audacity software, you are able to quickly record your 33 1/3 speed vinyl into the computer and use the software to adjust the faster speed back to normal playback. This feature is useful for recording multiple records. For example, you can record 10 minutes of audio in as little as 7 minutes when recording at 45RPM.

Saving three minutes isn't a large saving for one record, but if you are recording multiple LPs, you can record 4 hours of music in under 3 hours.

Instructions:

1. Record your 33 1/3 RPM vinyl at 45RPM by pressing the **45RPM** of the turntable.
2. You will hear the audio recording at an unusual pitch due to its high speed.
3. When you finish recording stop the recording.
4. Go to **Edit** and **Select All** (See Figure 4).
5. Go to **Effect** and then the **Change Speed** Menu. Select from **45** to **33 1/3** and your vinyl will be adjusted to the correct speed as shown in Figure 9.

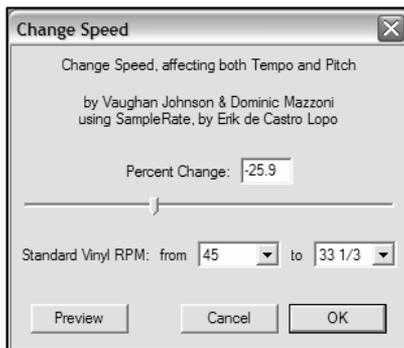


Figure 9: Change Speed

DIVIDING YOUR ALBUM INTO TRACKS

Note: You must finish all cleaning and editing, including removing unwanted silence before/after songs, before dividing your album into tracks.

1. Select the **Fit Project in Window** tool as shown in Figure 10.
2. After zooming out to see all of the tracks, you can see the separation between tracks by the gaps as shown with 1,2,3 below (Figure 11). The next steps show how to split and label these tracks and export them to WAV (CD quality) format.



Figure 10: Fit Project in Window

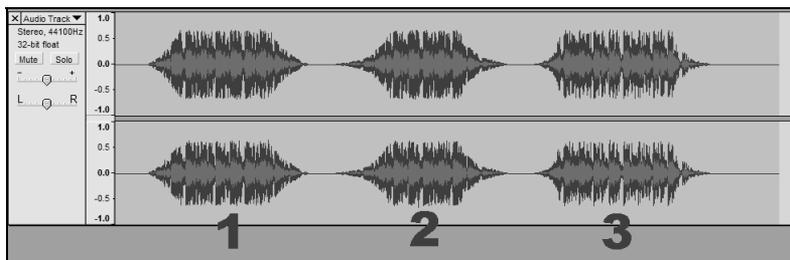


Figure 11: Identifying Separate Audio Tracks

There are two ways to split your recording into separate tracks: automatically, and manually. If your record is in good condition, and has a distinct silence between the songs, automatically splitting the tracks may be faster and easier. If your record is in poor condition or does not have silence separating the songs, manually splitting the album will work better for you.

Automatically Dividing Your Album (Windows Only):

1. Select your entire recording by selecting **Edit**, then **Select...**, then click **All**. You can also use Ctrl+A on a PC or APPLE+A on a Macintosh to quickly select all. (See Figure 4)
2. Select the **Analyze** menu from the top of the screen and choose **Silence Finder**.
3. The Silence Finder will attempt to detect the silence between each song in the recording. With most recordings, you only need to set the **Silence Level** field in Silence Finder's window. Type **15** into the **Silence Level** field and hit **OK** (Figure 12).

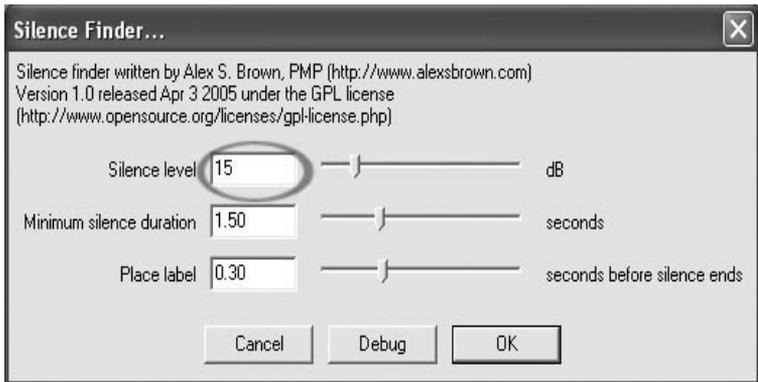


Figure 12: Silence Finder

4. Your recording will then be analyzed, and a Label Track will appear underneath your recording. It will contain markers representing the beginning of each new song. (Figure 13). When you export your recording (see: Exporting Your Tracks To Separate Files), these markers will be used to create separate audio files for each song on your album.

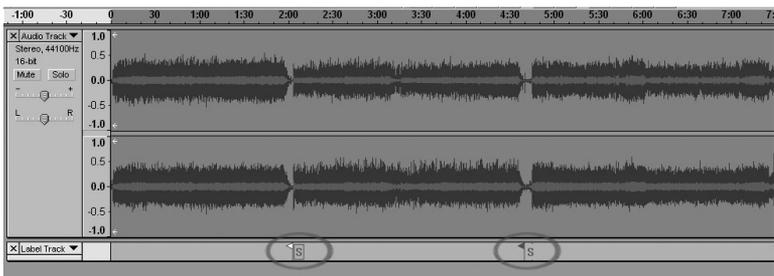


Figure 13: Track Labels

5. If you notice that the markers placed by the **Silence Finder** do not match up with the songs correctly, or that there were too few or too many markers added, you may undo the operation and try again with different settings. If your markers appear to be correct, proceed to the **Exporting Your Tracks To Separate Files** Section below.
6. To undo, select the **Edit** menu from the top of the screen and choose **Undo**.
7. Repeat steps 1-3 above, and try a different setting in the **Silence Level** field. If there were too few markers added in your previous attempt, use a lower number in the **Silence Level Field**, such as **10**. If there were too many markers added in your previous attempt, try a higher number in the **Silence Level Field**, such as **20**. Certain records and types of music may not work well automatic track separation. If you cannot get good results with the **Silence Finder** you may need to manually divide your album into tracks (see below).

Manually Dividing Your Album:

1. Press the **Skip to Start** button  to move to the beginning of the recording.
2. Select the **Project** menu and then select **Add Label At Selection**. This will set the starting point of the first track.
3. Type in the name of the first track, the text will show at the label marker. (See 14)
4. Select the space between tracks (where there is no audio) by clicking once. (vertical circle below)
5. You will see a line where you clicked.
6. Then repeat Step 4: Add Label At Selection.
7. Note: you can add or edit any track name (circled).
8. Repeat this process for adding labels for all tracks. You may need to zoom in to select the tracks and track separation.

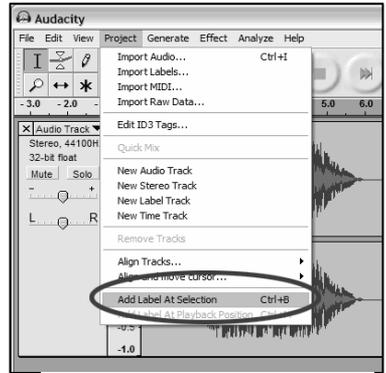


Figure 12: Adding Track Label

You may also want to hear the part of the track before you add a label for the track. Use the space bar to easily start and stop playback.



Figure 14: Track Separation and Labels

Note: the label is placed at the START of the track. For example, in 15, TRACK 1 is labeled at the beginning of audio recording. Track 2 is the label between the first and second track. You can also edit track names after they have been exported from Audacity.

In this three track example, the final break up is shown in Figure 15:

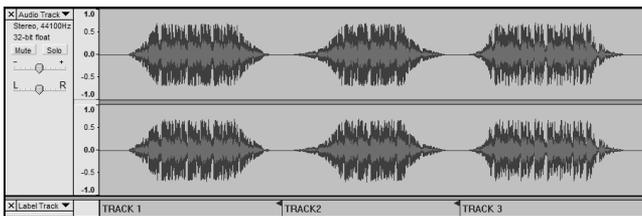


Figure 15: Completed Track Names Example

Additional Notes:

There are many different ways to edit your file. Dividing your file into separate tracks by adding labels is one way to accomplish this. You can always undo any mistakes in editing. Make sure to save your file regularly.

EXPORTING TRACKS TO SEPARATE FILES

This section explains how to export your separated files to WAV format to burn to a CD. You may also choose to convert to MP3 requiring 3rd party software downloaded from the Internet. Refer to the software help section for more information.

1. Now that you have divided up your tracks into labels from the master recording file, you are going to export the files into separate files.
2. Select the **File** menu and then select **Export Multiple...** as shown in Figure 16.
3. The Export Multiple window will come up (see Figure 17).
 - a. Select **WAV** as the export format and choose the Export location.
 - b. Select the Export Location. This is where you will save your files. You may want to create a special folder on your Desktop with the Album Name to store the files.
 - c. Select **Using Label/Track Name** as shown. *Note: You may want to export using consecutive numbering and change the names later. In this case you can select the other option, Numbering consecutively.*
 - d. Click **Export**.

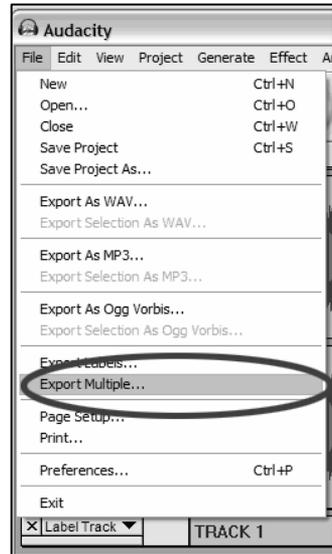


Figure 16: Export Multiple

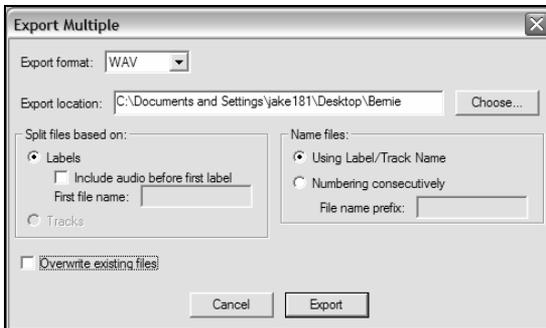


Figure 17: Export Options Menu

LISTENING AND EXPORTING TO WAV/MP3

To listen to your digitized audio, you will need a third party application that can play WAV files. You can also use any standard audio CD burning software to burn your WAV files to an audio CD.

If you would like to save your vinyl as an MP3 file after you have recorded it using Audacity, you will need to obtain and install the optional "LAME MP3 Encoder" plug-in. Once a file is in MP3 format it can be placed on any MP3 compatible mobile digital device.

- To download the LAME MP3 Encoder plug-in, please visit www.ion-audio.com/ttusb_audacity.php. There, you may also find additional information about the Audacity software, as well as Frequently Asked Questions.
- Click on the link to the LAME MP3 Encoder plug-in to transfer the file to your computer.

Note: It is advised that you save the downloaded .zip file to your desktop temporarily. You must then extract and save the LAME MP3 Encoder plug-in onto your computer in a location where you WILL NOT DELETE IT. Saving these individual plug-in files to your desktop is NOT recommended!!!

Windows users:

1. Create a new folder in [**My Documents**] called **Lame MP3 Plugin**.
2. Find the **downloaded .zip file** and open it.
3. Select ALL of the contents and copy them to the Lame MP3 Plugin folder you just created in [My Documents].
4. Now...**delete** the DOWNLOADED .zip file which is still on your desktop.

Mac users:

1. Create a new folder in your [**Home**] directory called **Lame MP3 Plugin**.
2. Find the **downloaded .sit or .zip file** and double-click it...this will extract the contents and create a new file on the desktop with the same name (it should show without the .sit or .zip extension).
3. Copy or move this new file to the Lame MP3 Plugin folder you just created in your [Home] directory.
4. Now...**trash** the DOWNLOADED .sit or .zip file which is still on your desktop.

In Audacity, when you attempt to **Export As MP3...** for the first time after installing the LAME MP3 Encoder plug-in, you will be asked for the location of the plug-in file. Browse to the **Lame MP3 Plugin folder** you copied the plug-in file to and select the file. Subsequently, Audacity will remember the location of this file.

RECORDING 78RPM RECORDS

If you want to record a 78 RPM album, you can record it at 33.3 or 45 RPM and convert it to 78 RPM in the Audacity software! After you have recorded the album, open the **Edit** menu then click **Select** then click **All**. Next, open the **Effect** menu and choose **Change Speed**. Then select the speed that you recorded at (33 or 45), as well as the speed you would like it to be (78). Then press **OK**.

TROUBLESHOOTING

Please contact Ion Audio or your retailer before returning this product. See the Safety Guide for more information.

• **NO SOUND:**

- If you are not getting any sound into the software application, go back to the preferences as shown above and make sure you have selected the USB input for the recording device.
- If you can not hear the music but you do see the music on the screen, open your preferences (Figure 2) and make sure that your **Playback Device** is set to your internal computer soundcard.
- Power Cycle: Close Audacity, turn off the turntable, unplug the USB Cable. Then plug in the USB Cable, turn on the turntable, and reopen Audacity.
- If you are not able to hear any audio as you play the record, please click on the microphone drop-down arrow and select **Monitor Input**. This will enable you to hear the audio from the turntable, even if you have not record-enabled the Audacity application.

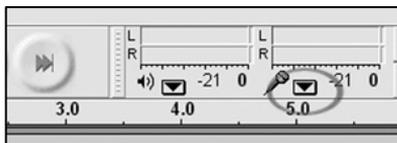


Figure 19: Monitor Input

If you are not seeing the microphone slider, please go to the **Preferences** menu in Audacity, click on the **Interface** tab and make sure that the **Enable Mixer Toolbar** and **Enable Meter Toolbar** options are checked. If they are not, please check them and then press **OK**.

- Check the microphone slider to make sure that it is at full volume, all the way to the right as shown in Figure 20:

If you are not seeing the microphone slider, please go to the **Preferences** menu in Audacity, click on the **Interface** tab and make sure that the **Enable Mixer Toolbar** and **Enable Meter Toolbar** options are checked. If they are not, please check them and then press **OK**.

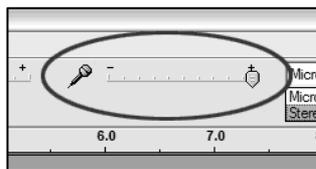


Figure 20: Input Level

▪ **POOR SOUND Quality:**

- If a recording sounds distorted or garbled during playback, you may need to adjust the input volume from the turntable. Try moving the **Input Level** slider in Audacity to the left to lower the input volume (See Figure 17). You can use the **Normalize** effect, as described in the Adjusting Your Audio Level section, to bring the volume back up to normal after the recording.
- Check your cartridge connection to make sure it is secured to the tone arm. The cartridge **must** be connected to the tone arm whenever using the turntable.
- Make sure that your RCA plugs are plugged into a source or not touching bare metal. If you are experiencing noise through the USB, you may have interference from the RCA plugs. Ensure the USB cable is not touching or near any other cables.
- If you experience any odd sounds coming from the recording, try closing all applications, restarting the computer, and only run Audacity while recording.
- If you are using the RCA plugs and your turntable is equipped with a **PHONO/LINE** switch, make sure that you have the switch on the bottom panel set to the correct position. Refer to the Quick Start guide for more information.
- Make sure that you have properly installed and calibrated the tone arm of the turntable – please refer to the TONE ARM SETUP section of your USB turntable’s Quick Start Guide.

For additional information, frequently asked questions and troubleshooting, please visit www.ion-audio.com/ttusb_audacity.php

**For technical support, please contact
Ion-Audio at (401) 658-3743**

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