Software Guide

audio-technica

Audio-Technica USB Turntables

Contents

A note about software

Your Audio-Technica AT-LP60-USB, AT-LP120-USB or AT-LP240-USB turntable is supplied with Audacity recording software for your convenience. Please note that other third-party recording software packages are also compatible with this turntable.

Audacity is free software, distributed under the GNU General Public License (GPL). More information and open source code is on the included Audacity CD and on the Audacity web site: http://audacity.sourceforge.net

System Requirements

PC or Mac with an available USB port (USB1.1 or higher)

CD-R or CD-RW writer for burning CDs & installation
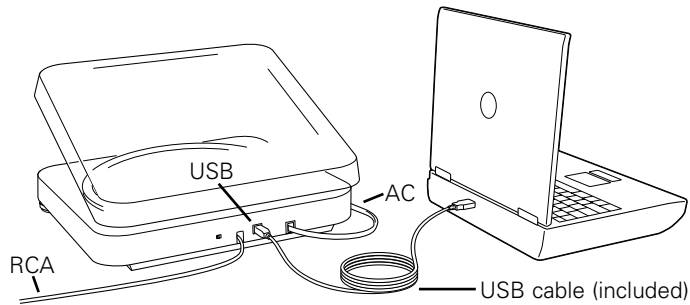
Audacity requires:
   Mac running OSX or above* or
   PC running Windows (XP or above*)

***NOTE:** For use with Windows 7, Windows Vista and Mac OSX 10.6: If the Audacity recording software included with this turntable is version 1.2.6, please download Audacity recording software for these operating systems from http://audacity.sourceforge.net.
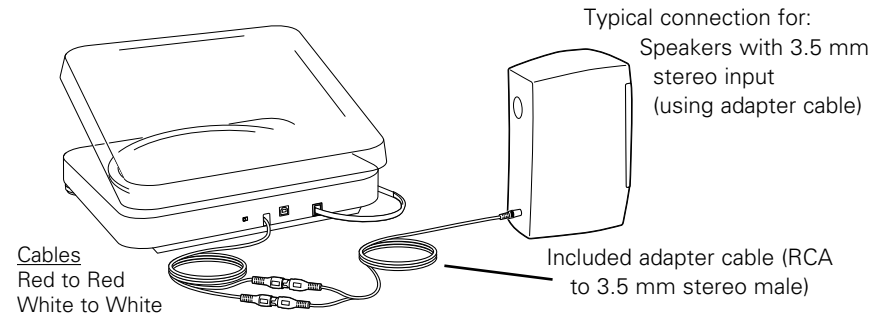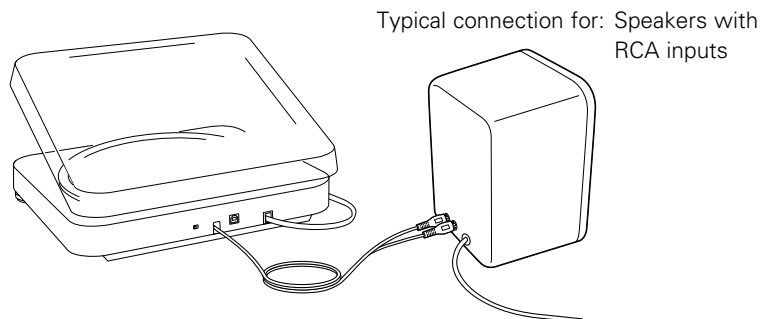
Mac is a trademark of Apple Inc., registered in the U.S. and other countries.
Windows is a registered trademark of Microsoft Corporation in the U.S. and other countries.

1. Before installing software, assemble the turntable, following directions in the included Owners Manual.

2. Plug the AC cord on your turntable into an AC power outlet.

3. Next, use the included USB cable to connect the turntable to your Mac's USB port.

USB

AC

RCA

USB cable (included)

4. If you have external self-powered speakers, make certain they are plugged into your computer's audio input or into the line-out RCA plugs of the USB turntable, and that the Phono/Line switch on your turntable is switched to Line. (Audacity offers a software play-through feature that allows you to listen to the album through your computer while recording, even if you don't have external speakers.) If your computer has a headphone output, you can choose to monitor your recording with headphones.
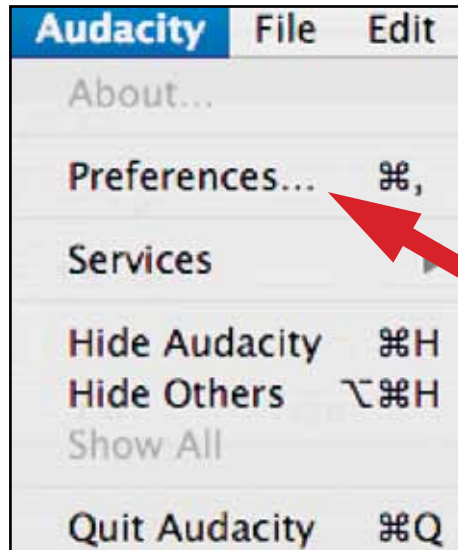
NOTE: On the AT-LP240-USB, the RCA cables are not permanently attached to the turntable; they plug into the RCA jacks on the back of the turntable. See the AT-LP240-USB owner's manual for cable connection instructions.
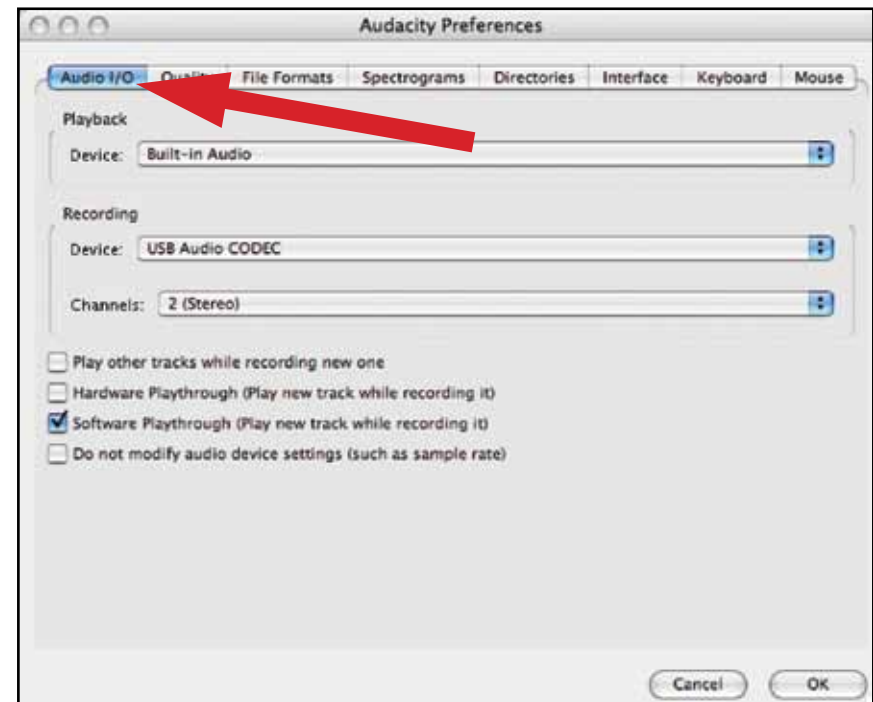
Typical connection for: Speakers with RCA inputs

Typical connection for:
Speakers with 3.5 mm
stereo input
(using adapter cable)

Cables
Red to Red
White to White

Included adapter cable (RCA to 3.5 mm stereo male)

5. Turn your computer on.

6. Insert the included Audacity CD in your Mac's CD drive. Open the CD icon on your desktop. Drag the installation folder for Audacity to your applications folder. When the files have been copied, eject the CD.

Setting up your MAC (OSX and above) to work with your USB Turntable

1. Open the **Audacity** program.

2. Select **Preferences** from the Audacity menu.
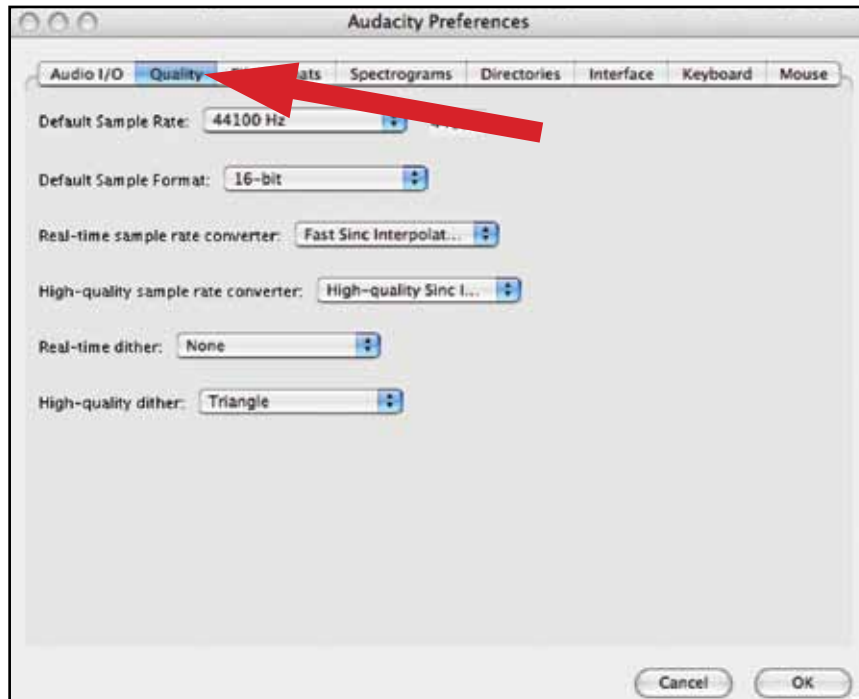

3. Select **Audio I/O** tab at the top left.
- Under Playback, Device, select **Built-in Audio**.
- Under Recording, Device, select **USB Audio CODEC**.
- Under Recording, Channels, select **2 (Stereo)**.
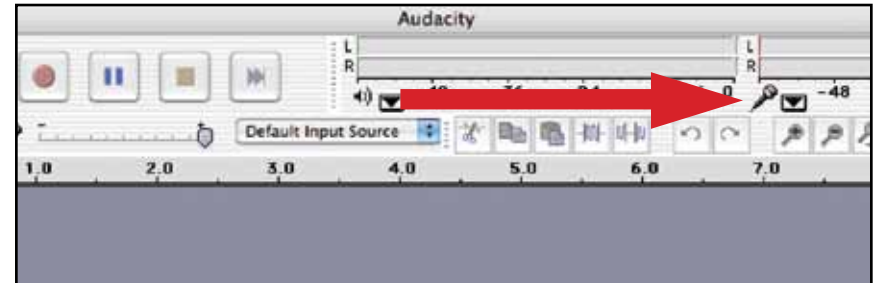- Check the box marked **Software Playthrough**.

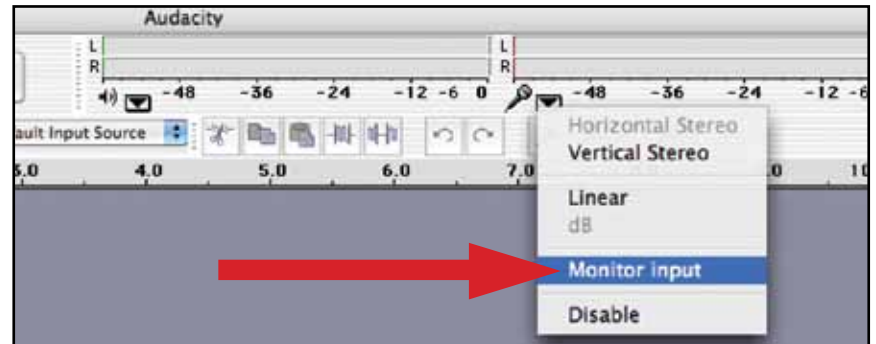**NOTE:** The screens shown are from Audacity 1.2.6; later versions of Audacity may change.

4. Next, select **Quality** tab at the top.
- Default Sample Rate: **44100 Hz**.
- Default Sample Format: **16-bit**.
- Real-time sample rate converter: **Fast Sinc Interpolation**.
- High-quality sample rate converter: **High-quality Sinc Interpolation**.
- Real-time dither: **None**.
- High-quality dither: **Triangle**.
- Select **OK** to save settings and exit **Preferences** menu.

5. Next, from the main Audacity window, select the drop-down box (arrow pointing down) next to the microphone at the right side of your screen.
- If you don't see the drop-down box or the microphone pictured below, return to Preferences Menu (see step 2, page 17). Select the **Interface** tab. Check **Enable Meter Toolbar**. This will allow you to see the microphone with the drop-down box on your main screen.

6. Select **Monitor Input** from the drop-down menu. **NOTE:** You will need to select this setting every time you launch Audacity. The other settings selected above will be saved when you exit the program.
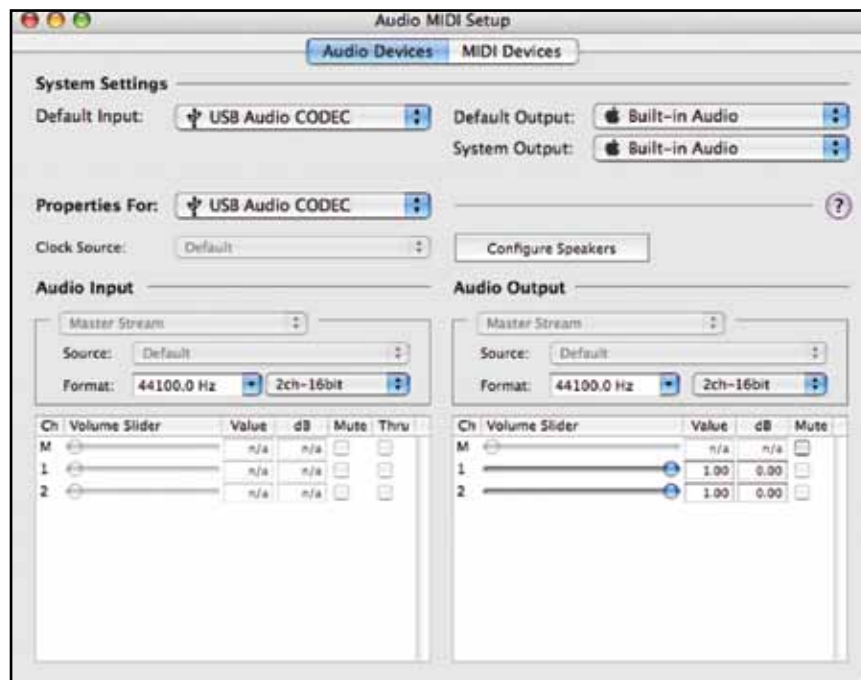

NOTE: The screens shown are from Audacity 1.2.6; later versions of Audacity may change.

Additional MAC audio settings

We have set the Audacity playback and record settings. Now it's time to set the separate Macintosh audio playback and record settings.

1. Go to **Applications > Utilities >** then select and open **Audio MIDI Setup**.

2. In the Audio Midi window under the tab **Audio Devices**, select the following:
- Under System Settings, Default Input, select **USB Audio CODEC**.
- Under System Settings, Properties For, select **USB Audio CODEC**.
- Under Default output, select **Built-in Audio**, or **Built-in Output**.
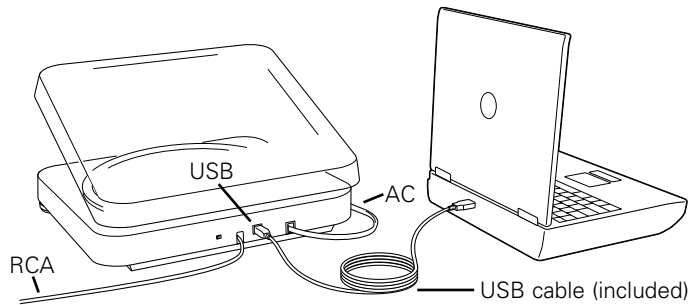- For System output, select **Built-in Audio**.

This will allow other programs (in addition to Audacity) to use your Mac's internal sound card for audio output.

NOTE: The screens shown are from Audacity 1.2.6; later versions of Audacity may change.

1. Before installing software, assemble the turntable, following directions in the included Owners Manual.

2. Plug the AC cord on your turntable into an AC power outlet.

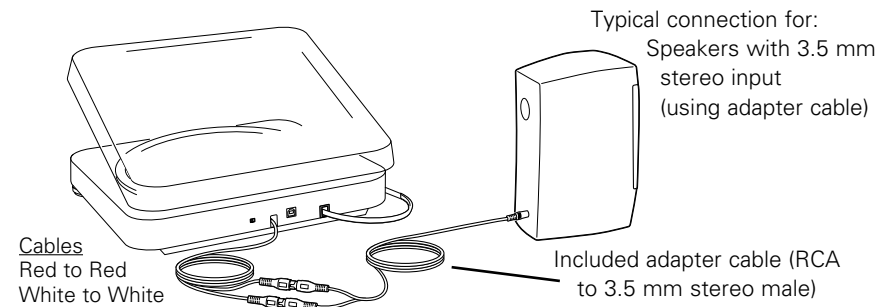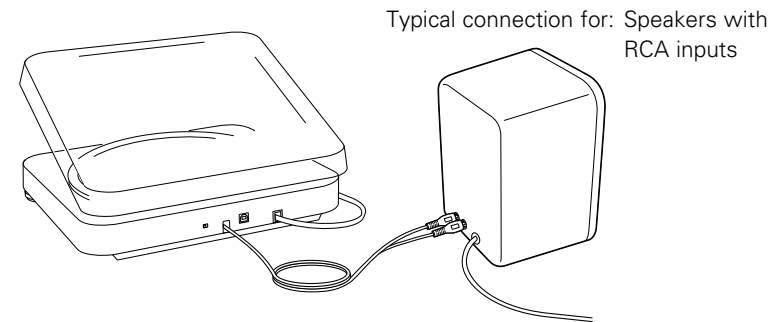**3.** Next, use the included USB cable to connect the turntable to your PC's USB port.

NOTE: If the signal drops out when using the USB output on a Windows-based desktop computer:

1. Make certain you are utilizing a USB port on the CPU portion of your computer. Do not use the USB ports on a hub or monitor, as there is unregulated power to these ports which can cause loss of USB connection. Please check the Microsoft website for additional detail if needed.

2. Check to make certain the cable is secured in both the turntable and computer.

3. On the AT-LP240-USB, make certain the Line/Phono switch is set to the "Line" position when using the USB output.

4. If you have external self-powered speakers, make certain they are plugged into your computer's audio input or into the line-out RCA plugs of the USB turntable, and that the Phono/Line switch on your turntable is switched to Line. (Audacity offers a software play-through feature that allows you to listen to the album through your computer while recording, even if you don't have external speakers.) If your computer has a headphone output, you can choose to monitor your recording with headphones.

NOTE: On the AT-LP240-USB, the RCA cables are not permanently attached to the turntable; they plug into the RCA jacks on the back of the turntable. See the AT-LP240-USB owner's manual for cable connection instructions.
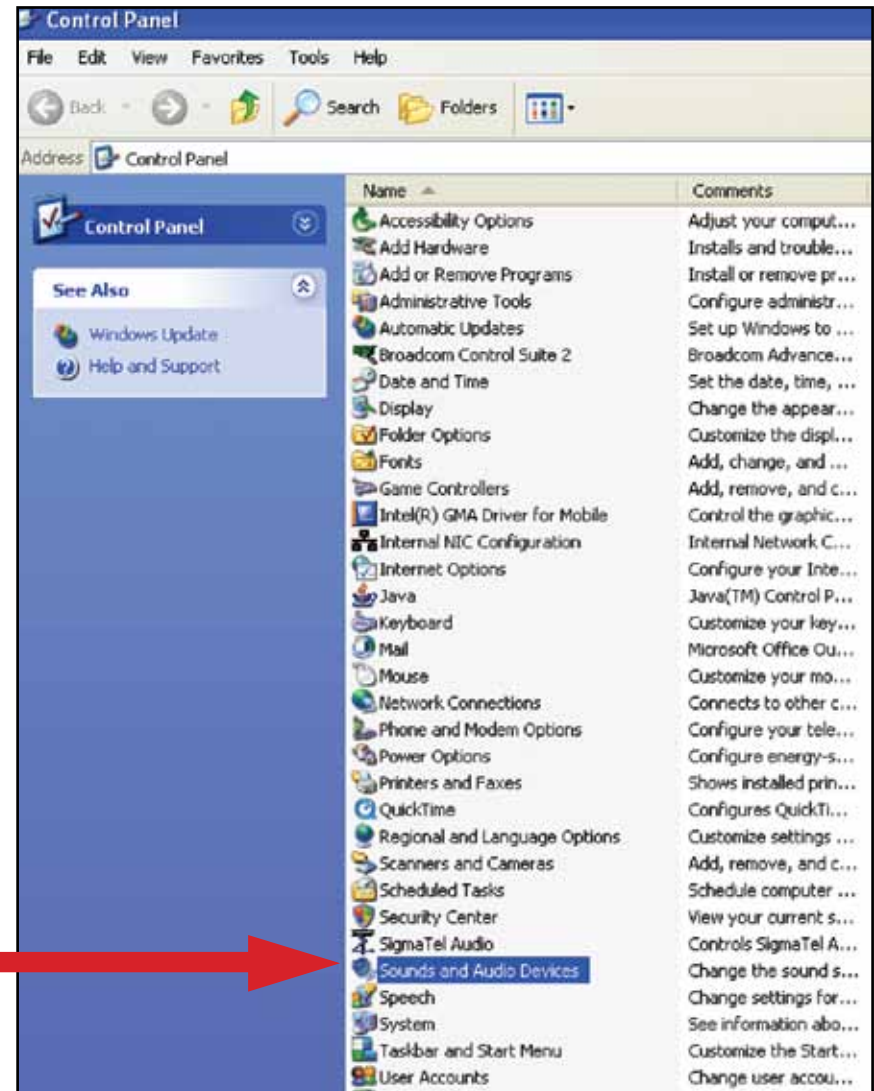

Typical connection for: Speakers with RCA inputs

Typical connection for: Speakers with 3.5 mm stereo input (using adapter cable)

Cables
Red to Red
White to White

Included adapter cable (RCA to 3.5 mm stereo male)

5. Turn your computer on.

6. Insert the included Audacity CD. An Audacity window will appear. Click Audacity Setup icon to install. **Follow the directions on the pop-up windows to install the software.**

7. Re-start your computer.

Setting up your PC (with Windows XP) to work with your USB Turntable

1. Close programs operating on your computer.

2. Start menu > Control Panel > Sounds and Audio Devices
    • Begin at your **Start** menu. Select **Control Panel**.

• Select (double-click) **Sounds and Audio Devices**.

3. The following screen will pop up:

4. Select the **Voice** tab.
- In the **Voice playback** area of the window, select your computer's internal sound card (*not* USB Audio CODEC; *not* Microsoft Sound Mapper).
- In the **Voice recording** area of the window, select **USB Audio CODEC**. Click **Apply**.
  NOTE: If the "USB Audio CODEC" option does not appear, check the USB cable to ensure it is properly connected to the USB port.

Setting up your PC (with Windows XP) to work with your USB Turntable

5. Next, select the **Audio** tab.
  - In the **Sound playback** area of the window, select your computer's internal sound card.
  - In the **Sound recording** area of the window, select **USB Audio CODEC**.
  - Check the following box: **Use only default devices**.
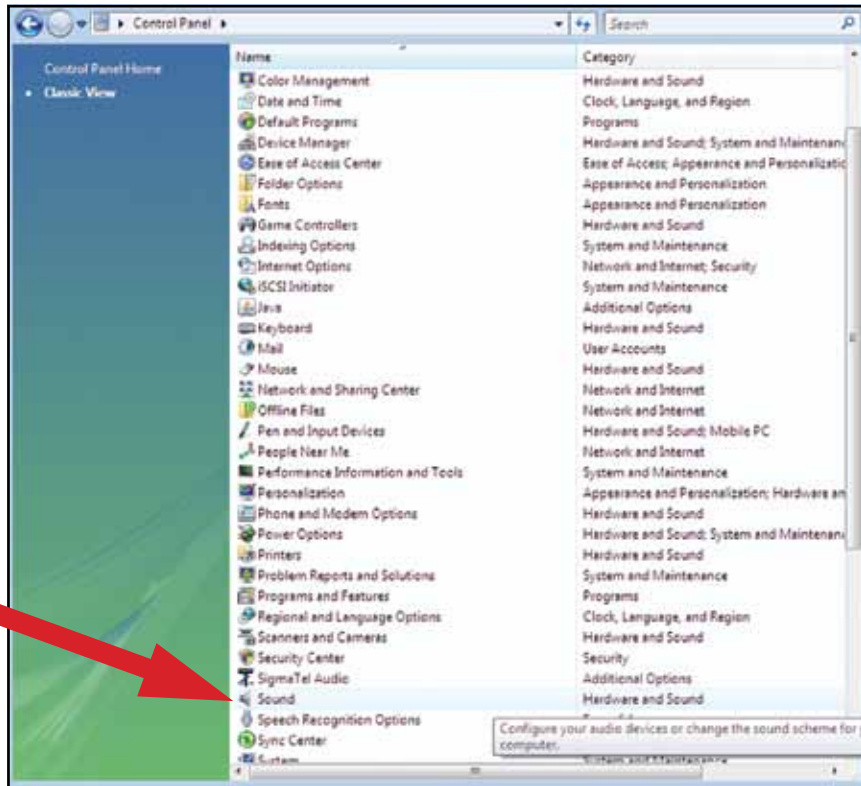 - Click **Apply**; then click **OK**.
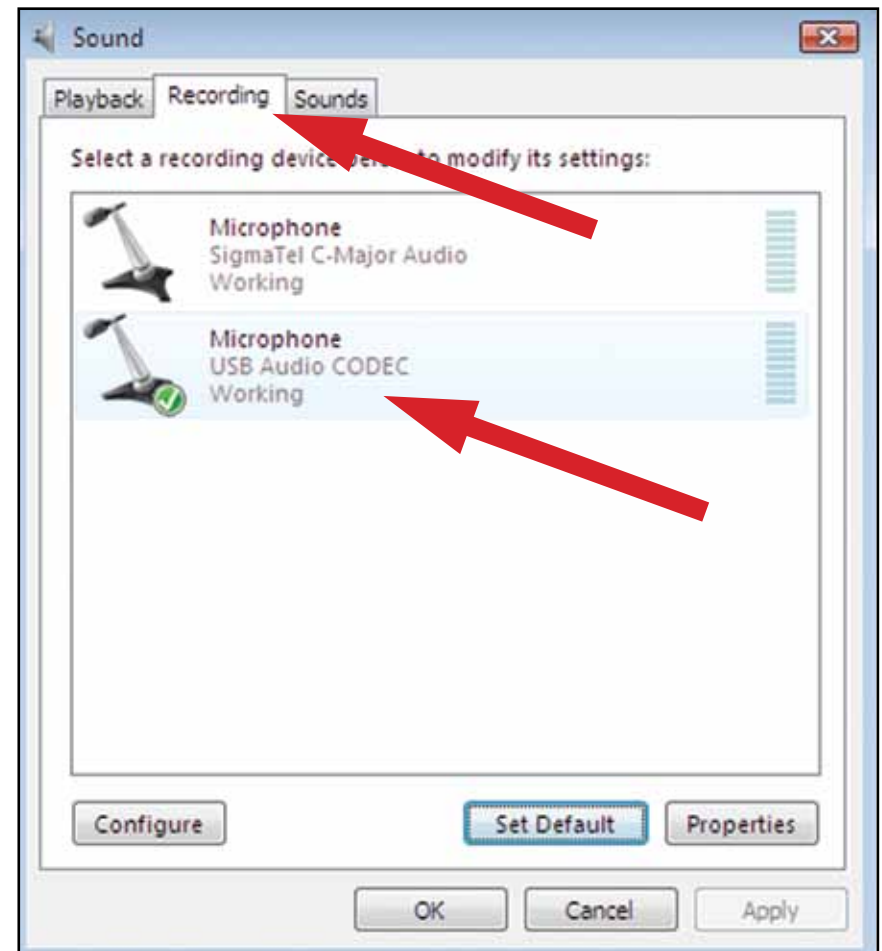
1. Start menu > Control Panel > Sound.
Begin at your Start menu. Select Control Panel (classic view).

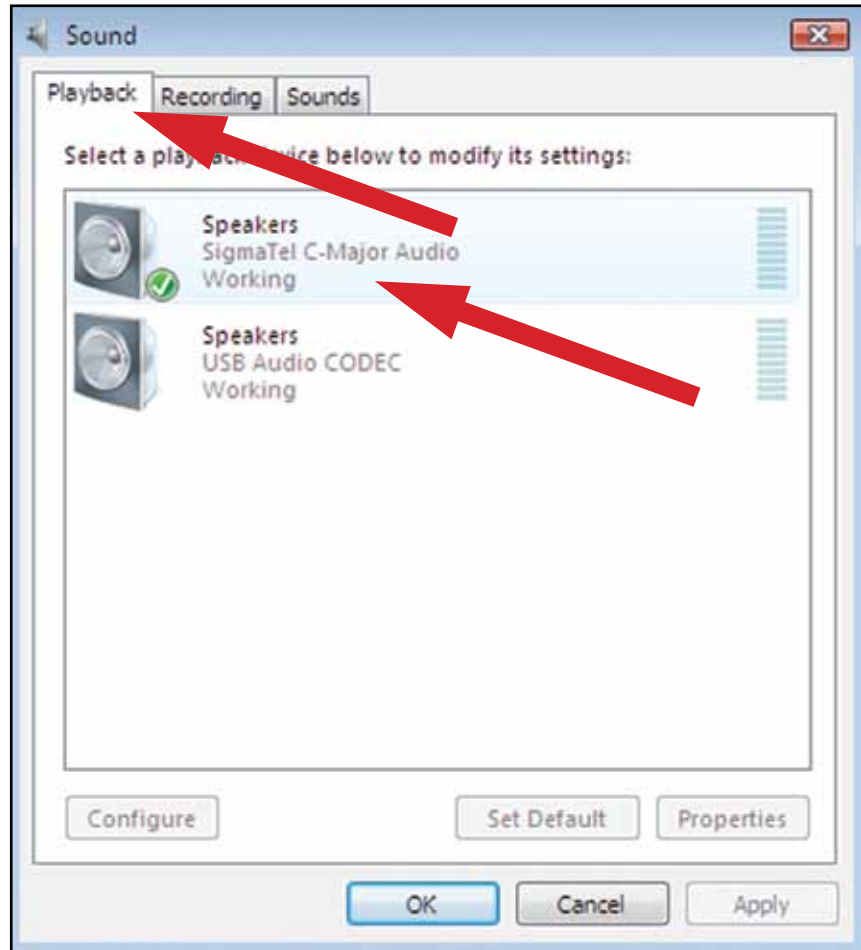**2.** Select (double-click) **Sound**.

3. Select the **Recording** tab. Make sure that the **USB Audio CODEC** is set as the default recording device. (You should see a green check mark beside **USB Audio CODEC**.)
NOTE: If the "USB Audio CODEC" option does not appear, check the USB cable to ensure it is properly connected to the USB port.
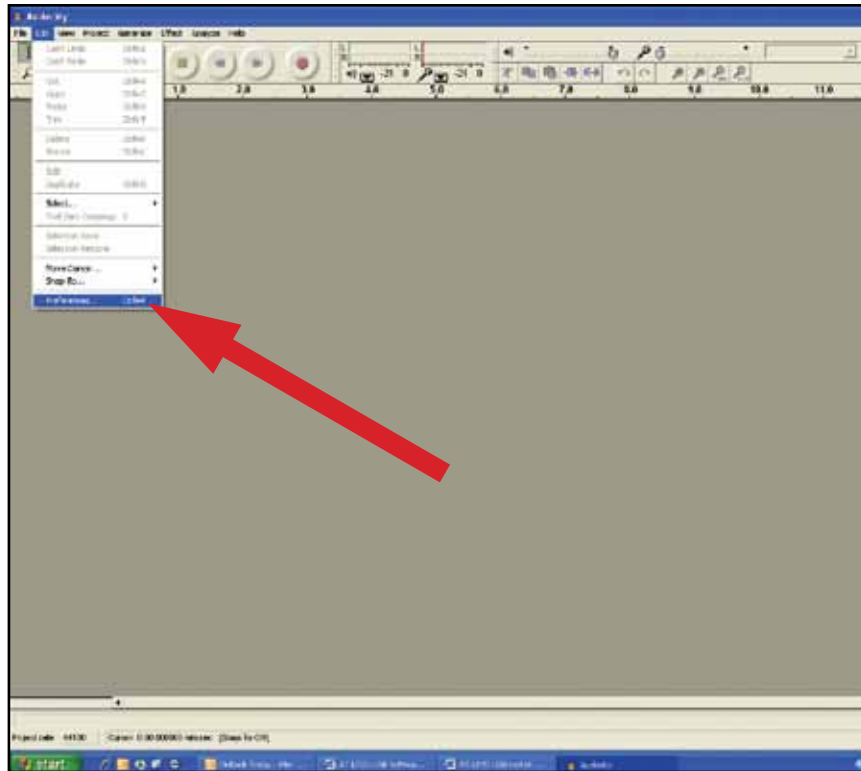
Setting up your PC (with Windows Vista or Windows 7) to work with your USB Turntable

4. Select the **Playback** tab. Select your internal sound card speakers (these are usually the first listed).

5. Click **Apply**; then click **OK**.
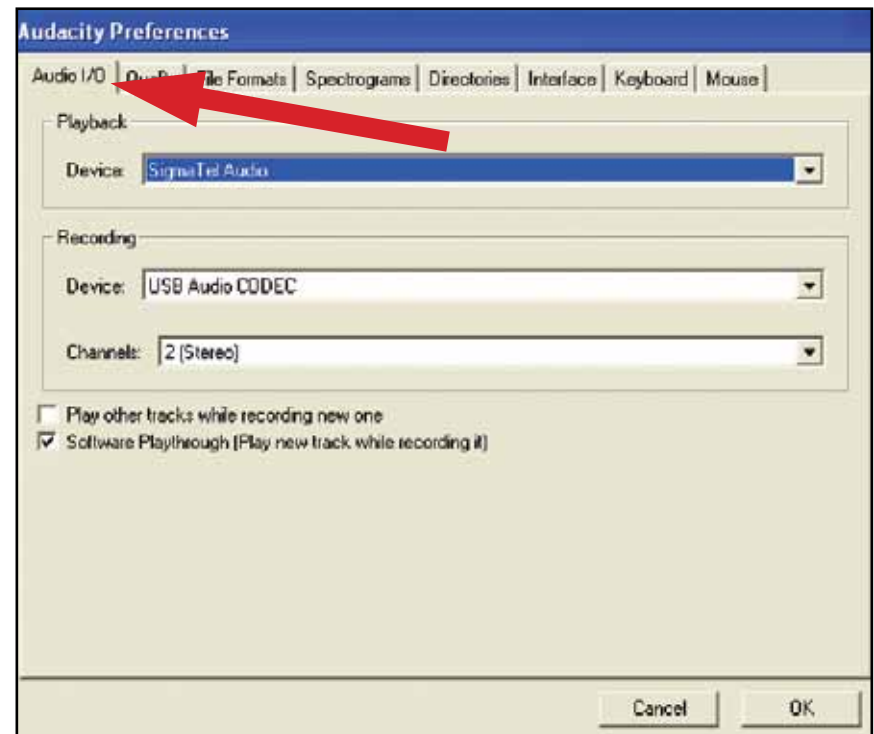
6. Close your **Control Panel**.

1. Launch the Audacity program from your Start menu.

2. Select **Preference** from the Edit tab in the Audacity Menu.
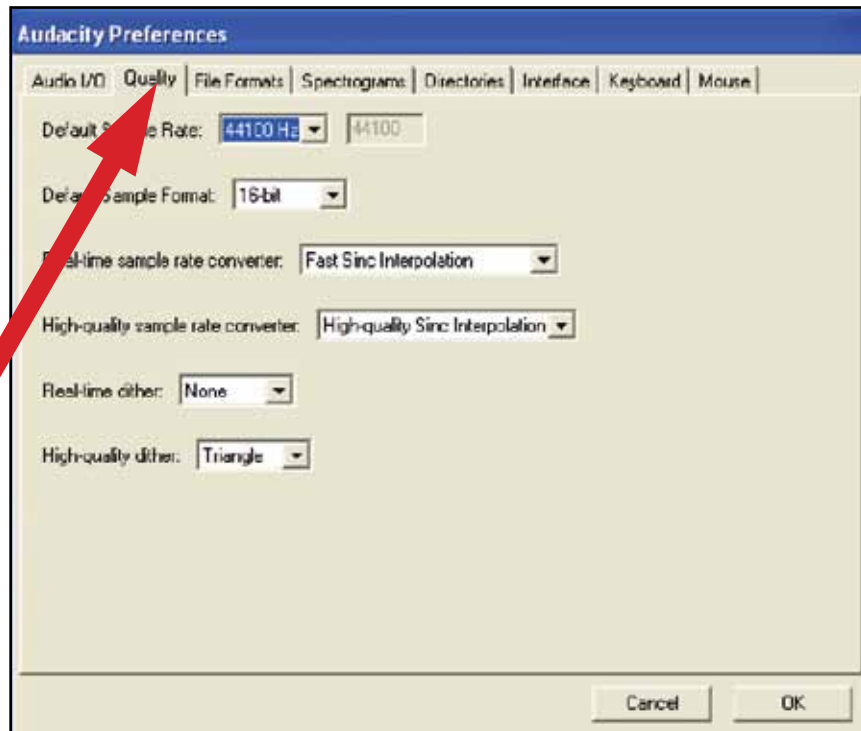

3. Select **Audio I/O** tab at the top left.
- Under Playback, Device, select **your internal sound card.**
- Under Recording, Device, select **USB Audio CODEC**.
- Under Recording, Channels, select **2 (Stereo)**.
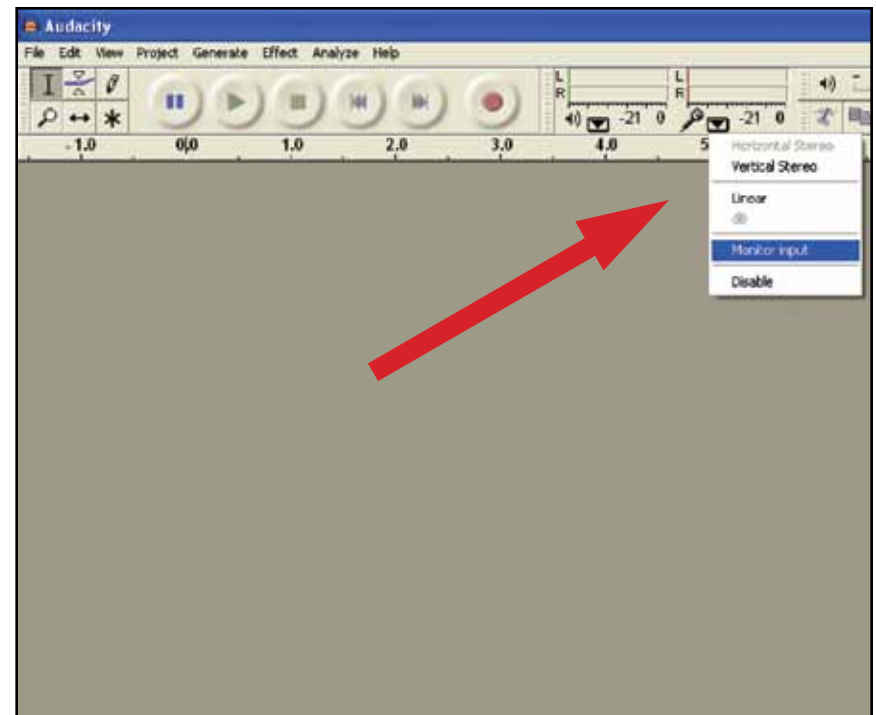- Check the box marked **Software Playthrough**.

NOTE: The screens shown are from Audacity 1.2.6; later versions of Audacity may change.

Setting up your PC to work with Audacity

4. Next, select **Quality** tab at the top.
- Default Sample Rate: **44100 Hz**.
- Default Sample Format: **16-bit**.
- Real-time sample rate converter: **Fast Sinc Interpolation**.
- High-quality sample rate converter: **High-quality Sinc Interpolation**.
- Real-time dither: **None**.
- High-quality dither: **Triangle**.
- Select **OK** to save settings and exit Preferences menu.

5. Next, from the main Audacity window, select the drop-down box (arrow pointing down) next to the microphone near the middle of your screen.
- If you don't see the drop-down box or the microphone pictured above, return to Preferences Menu (see step 2, page 21). Select the Interface tab. **Check Enable Meter Toolbar**. This will allow you to see the microphone with the drop-down box on your main screen.
- Select **Monitor Input** from the drop-down menu. **NOTE:** You will need to select this setting every time you launch Audacity. The other settings selected above will be saved when you exit the program.
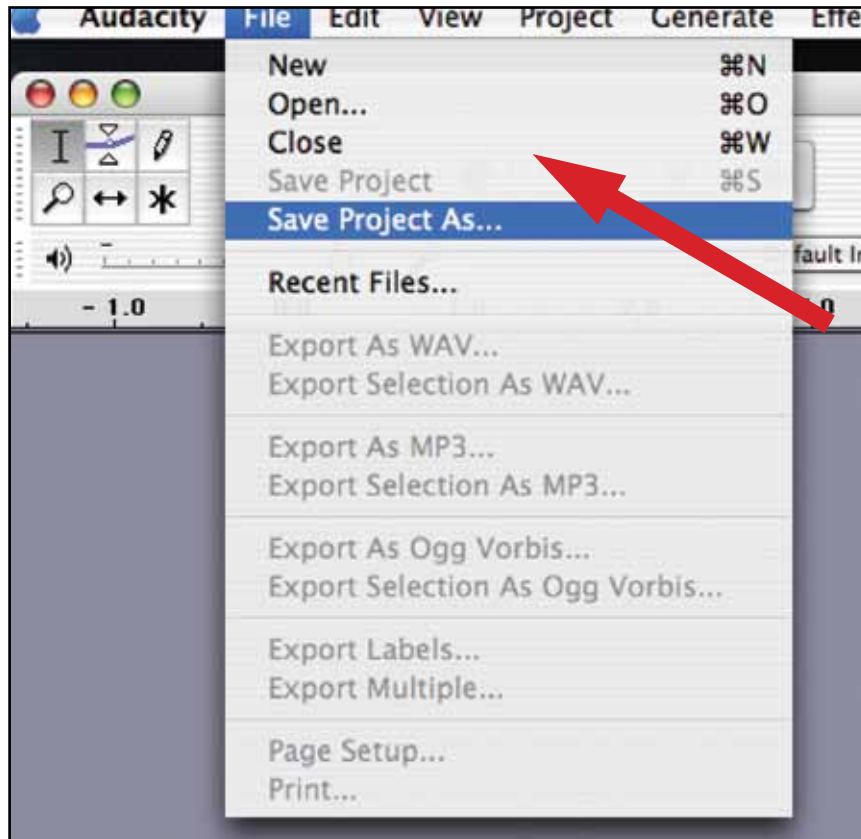

NOTE: The screens shown are from Audacity 1.2.6; later versions of Audacity may change.

To get started with Audacity, follow the instructions below. For in-depth information on recording and saving projects, please visit the on-line Audacity manual at **http://audacity.sourceforge.net/manual-1.2/index.html**

1. Saving a project

- Audacity writes all the changed and recorded audio to a directory called **Projectname_data**, which is located right where you saved the project file itself.
- Thus, select **Save project as** from your Audacity File tab and choose a location and filename for your project.
- Please note that when you startup Audacity fresh, only the **"Save As..."** menu option is available.

2. How to record

- Set your USB turntable up to play the song or album you want to record.

- Click on the red Record button to begin recording.

- Lower tone arm on USB turntable onto album and track you want to record.

- Click on the blue Pause button to pause the recording. Press it again to continue.

- Click on the yellow Stop button.

That's it. You can now play around with your recording and explore the editing capabilities of Audacity. Remember that you can use the Undo function almost without limits while the project is open.

NOTE: CD's cannot be burned directly from the Audacity application. Other CD burning applications should be used.

To learn more about Audacity

For in-depth information on recording and saving projects, please visit the on-line Audacity manual at **http://audacity.sourceforge.net/manual-1.2/index.html**

NOTE: The screens shown are from Audacity 1.2.6; later versions of Audacity may change.

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