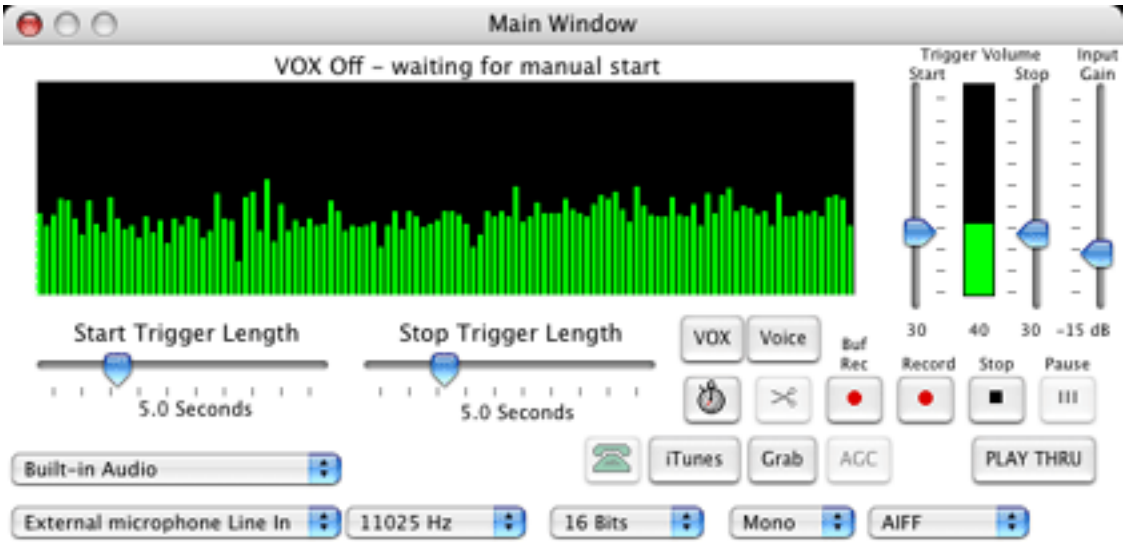
Audiocorder

Audiocorder Version 5.4.0 May 6, 2010



Requirements

Mac OS X 10.4 or later. Audiocorder is distributed as a universal binary, and will work on both PowerPC and Intel Macintosh systems. If you have Mac OS 9 or an Mac OS X 10.3.9 or earlier, you need to use version 4.x of Audiocorder, available from the website.

info@blackcatsystems.com
http://www.blackcatsystems.com

Notes

Thanks for giving Audiocorder a try. Please read through these brief instructions, so you'll be able to fully utilize Audiocorder's features. Please also take a moment to read the section of registering (paying for) your copy of Audiocorder.

Requirements

A Macintosh with built in sound input, or a USB sound input device. The sound input device must be capable of recording at 44.1 kHz, 16 bits, mono or stereo. If not, Audiocorder will not work properly. Some of the more basic USB microphones cannot record at 44.1 kHz, resulting in a chipmunk like recording. The Griffin iMic USB mike works fine.

Audiocorder for Mac OS X requires at least version 10.3.0 of Mac OS X. If you have an earlier version of Mac OS X, or are running Mac OS 9, please instead download an earlier version of Audiocorder, available on our download page:
http://www.blackcatsystems.com/download/audiocorder.html

Introduction

Audiocorder allows you to record sound using your Mac.

You can do this several ways:

Audiocorder can be used to automatically start recording sound to a disk file. The recording process is triggered when the volume exceeds an initial threshold, for a specified minimum amount of time. It then continues to record until the volume drops below a second threshold for a minimum amount of time.

Audiocorder can also be used as a manually operated recorder. You use pushbuttons, just like on a “real” recorder, to start and stop recording.

In addition, Audiocorder can start and stop recording at scheduled times. Up to 50 recording periods may be scheduled in advance. Think of it like a VCR.

You can also use Audiocorder to record telephone calls, if your Macintosh has an internal modem connected to your phone line. **This works with most but not all internal modems You need to test it on your particular system to see if it will work for you, as not all Macs have the modem audio routed to the sound input device.**

Each sound file is stored in AIFF format, a Macintosh standard sound format, or as a Windows WAVE file. The audio can be sampled at 11, 22 or 44 kHz, with 8 or 16 bit resolution, either monophonic or stereo (depending on your particular Mac's hardware capabilities). The name of

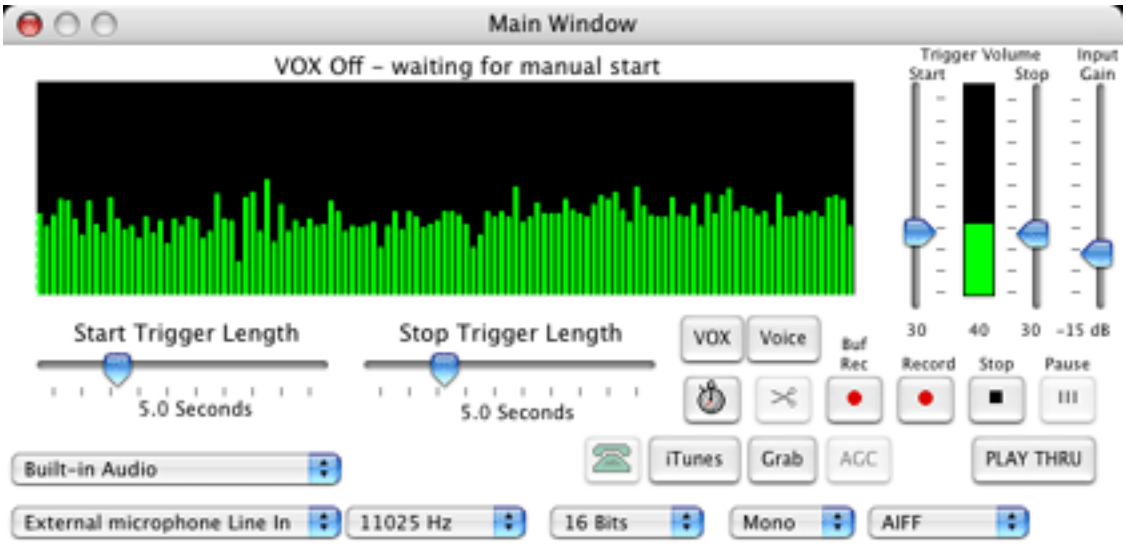
each file contains the date and time (down to seconds) the recording began.

Start Up

When you first launch Audiocorder, you'll see the Audiocorder window. You'll see a moving bargraph, showing the audio volume levels being recorded (if there's anything to record!)

You'll most likely want to select which audio input device and source to use, along with some other settings. These are explained in the following pages.

Audiocorder Window



The main window contains a volume indicator, five slider controls, five or six buttons, and a bar graph showing past volumes, as well as six popup menus.

Volume Indicator

This shows the current volume, which can range from 0 to 100%. It is one of three colors:

Green: Audiocorder is not recording.

Yellow Audiocorder is currently recording.

Red: The volume is too loud, and some of the sound may be clipped, resulting in distortion. Lower the volume control on your radio, or whatever is the source of the audio signal, or adjust the input gain slider.

Manual Recording

There are four buttons in the lower right corner, under the volume sliders. Two (on the left) have a red dot, and allow you to manually start recording, regardless of the volume level. The other two are the stop button (it has a black square), stops a manually started recording, and the pause button, which pauses recording.

The two record buttons behave in slightly different ways. The one next to the stop button works just like you would expect, when clicked it starts recording. The other one, buffered record, also records the audio present just before the button was clicked as well. The length of the additional buffered audio is specified in the preferences for Audiocorder as the “Buffer time” in seconds, and may range up to 60 seconds.

You can also use the menu commands under the File menu to start stop recording, or their keyboard shortcuts.

When in VOX mode, the stop button will also stop recording. If the volume is above the start threshold, then a new recording will of course start immediately.

Play Thru

You can enable or disable play-thru by using the button in the lower right corner. Play-thru causes the input sound to be played through your Mac’s speakers. Note that not all Macs support play thru, and not all USB devices do either. Under OSX, plau thru does not appear to work with USB microphones.

AGC

This enables AGC - Automatic Gain Control, which adjusts the input gain based on the audio volume. Not all Macintosh models support AGC, so it may have no effect on your Mac.

iTunes

If this button is clicked, when a recording ends, iTunes will automatically be asked to place it into it’s Library, as well possibly convert it to mp3 format.

This feature can be used to have iTunes automatically convert a recording into an mp3 format file. Make sure that you have the Import Using set to MP3 Encoder in the Importing preferences pane in iTunes.

It’s recommended that you manually start up iTunes prior to recording, so that it won’t have to start up when the recording finishes.

Telephone Line

The telephone line button instructs Audiocorder to pick up the phone line, and allows you to record telephone calls. See the section further down detailing this.

Scissors - Stop/Start Recording

When clicked, this button will stop the current recording, and start a new recording. This is ideal for manually breaking an album or CD into individual tracks. This button is only enabled when you're recording.

Grab Button

The grab button lets you record sound that has just occured. Audiocorder continuously buffers (stores) audio. When the grab button is clicked, a portion of that buffered audio is written out as the recording file. The length of that recorded audio is set in the preferences as the "Buffer time" in seconds.

Volume Operated (VOX) Recording

The VOX button enables or disables VOX recording. When enabled, recording will start and stop as controlled by four slider controls, as explained below.

Slider Controls

The Input Gain slider control can be used to adjust the input volume level, over a small range (as allowed by your Macintosh model)

There are four slider controls which are used to set the conditions that cause Audiocorder to start or stop recording:

Start Volume: When the audio volume exceeds this threshold (for a minimum amount of time, see below), recording begins.

Stop Volume: When the audio volume is below this threshold (for a minimum amount of time, see below), recording ends.

Start Trigger Length: This sets the minimum amount of time (in seconds) the volume must exceed the Start Volume setting for recording to begin. This could be used to reject short bursts of noise, which would otherwise start a recording.

Stop Trigger Length: This sets the minimum amount of time (in seconds) the volume must drop below the Stop Volume setting for recording to end. This could be used to allow for short periods of low volume (such as between words), which would otherwise stop a recording.

When you quit Audiocorder, your settings are preserved, and will be used the next time you run the program.

Voice Vox

When this button is clicked, the "Voice VOX" feature is enabled. This feature tries to use the content of the audio to determine when voice or music is present, vs static and other noises. It can be used to record audio off of a radio when static is present when there is no station on the air, such as some shortwave/ham radio monitoring applications.

It will take a bit of trial and error to learn how to use it. It adjusts the apparent volume based on the content of the audio. The idea is that human speech and music have certain common characteristics. When these are detected, the apparent input volume, as displayed in the volume indicator, and used by VOX mode to trigger the start of a recording, is increased. If the VOX start/stop triggers are carefully adjusted, it is possible to set Audiocorder up to record when there is speech or music present, vs just static, even if the volume of the static is louder than the real programming.

Of course this feature is not foolproof, as it has to make a lot of assumptions about the audio. But it can be useful in many cases.

Bar Graph

This shows the volume level over the last minute, one second per bar. Each bar is either green or yellow, depending on whether or not Audiocorder was recording at that time. It can be used to see what the average volume level is, and assist you in setting the Start and End volumes.

Input Source

You can select the input source (such as internal microphone, modem, external input, etc) from the popup menu in the lower left corner of the Audiocorder window.

Input Device

You can select the input device (such as built in audio, an external USB microphone, etc) form the popup menu located just above the input source menu.

Sampling Rate

This is the number of samples that are recorded per second. Faster sampling rates sound better, but take up more disk space. 44100 Hz is the sampling rate used by audio compact discs. 22050 and 11025 Hz rates are also available, they have lower audio quality, but also produce smaller files.

Sample Size

This is the number of bits used to represent each sound sample. 16 bits (used by audio compact discs) sounds best, but takes twice as much disk space as 8 bits.

Mono / Stereo

Specifies whether the recorded sound should be monophonic or stereo.

Please note that you cannot change the sampling rate, size, or mono/stereo while recording.

File Format

You can selected AIFF or WAVE file formats. AIFF files are used on the Macintosh, and are ideal for using later to burn CDs. WAVE files are commonly used on Windows systems.

Selecting The Folder To Store Recordings

By selecting **Select Storage Folder...** from the **File** menu, you can choose the folder in which Audiocorder saves AIFF recording files. Highlight the folder of interest, and click on Select (or Choose under MacOS 8 or 9). Quit and re-start Audiocorder for the change to take effect.

File names

Each recording is saved as a separate file, with a filename depending on the date and time the recording begins.

A typical automated file name is:

Recording 04-07-2001 191453

This means that the recording was made on 4-7-2001, starting at 19:14:53 (or 7:14:53 PM).

You can always rename a file in the Finder, after recording it.

If you prefer to have multiple recordings saved to one file, select **Record To One File As...** from the **File** menu. Enter the name for the recording file. All subsequent recordings are saved to this file, with each new recording appended to the end. Select **Stop Recording To One File** to resume saving each recording to it's own time stamped file.

Timed Recording

You can tell Audiocorder to record for a specified length of time, and then stop recording.

Click on the button with a picture of a stopwatch, and you will be prompted to enter the number of seconds of audio to record:

Enter the number of seconds, click OK, and Audiocorder will then start recording, and automatically stop when that number of seconds of audio has been recorded.

Scheduled Recording

It's possible for Audiocorder to automatically start and stop recording at scheduled times, rather than based on the volume level. To do so, you simply need to create a schedule, and tell Audiocorder to use that schedule.

If you name that schedule file STARTUP, and place it in the same folder as Audiocorder, it will automatically be opened when Audiocorder starts up.

To create a schedule, select new Schedule from the File menu. Each schedule can have up to 50 entries in it. Each entry tells Audiocorder when to start and stop recording. To create an entry, push the New Entry button, and fill out the requested information. If you check the Any date checkbox, then whenever you load this schedule file, the current date will be used. That means that you don't need to edit a schedule file that you wish to use on subsequent days, if you want to record during the same time period.

You can edit an existing entry by double clicking it. You can delete an entry by selecting it, and then clicking on the Delete Entry button.

To pick a schedule file, select Open Schedule from the File menu. Choose the file. The Recording Schedule window will be displayed, showing the recordings that will take place. Next to each recording is a status, which is one of the following:

Queued - The recording is scheduled to occur at the indicated time.
Recording - The recording is occuring now.
Recorded - The schedule has already been recored.
Skipped - The date and time of the entry is earlier than time the schedule was opened, so it wasn't possible to make the recording, and it was skipped.

You can also manually create a schedule file with a text editor, if for some reason you wish to. The schedule is a text file, created with Simple Text or another text editor, but not with a word processor, unless you've saved the file as a plain text file. If you'd like to create a schedule by hand, you can do so. The format of the file is as follows:

Each scheduled recording is listed on one line. The date and time that the recording begins, and then ends, are on that line. For example, to start recording at 5:30 pm on November 7, 1999, and stop recording at 5:45 pm on November 7, 1999, the line would look like this:

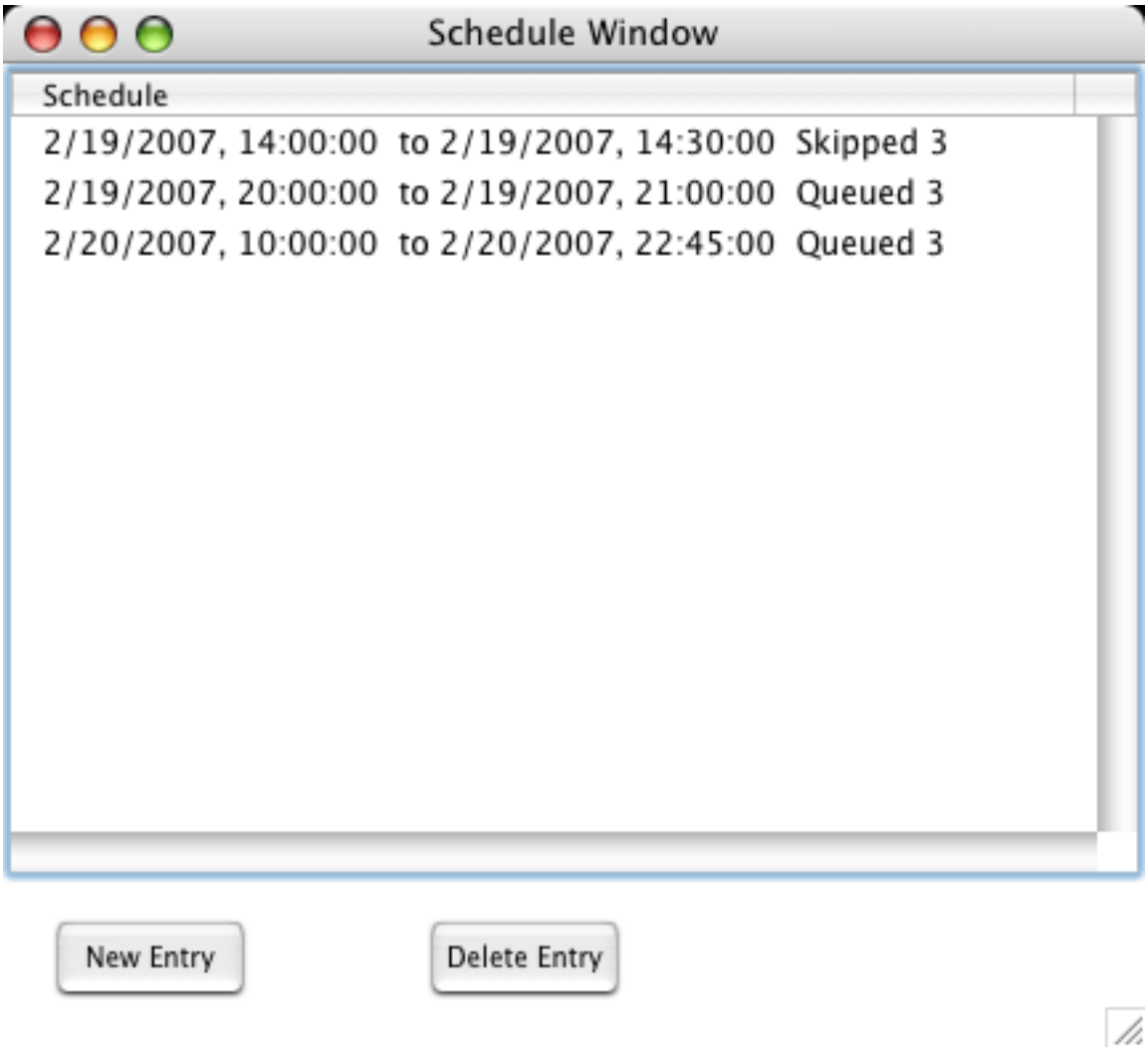
11/7/1999 1730 11/7/1999 1745

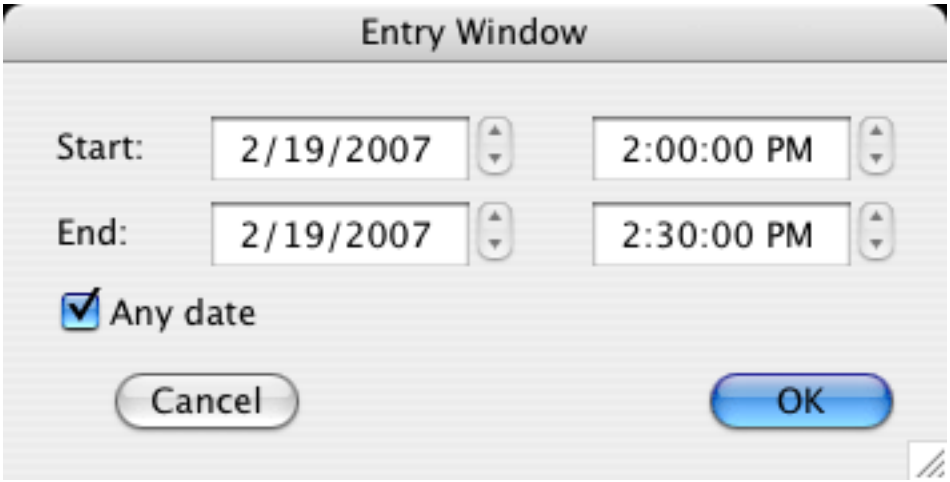
You can have up to 50 such lines in your file, allowing for up to 50 recordings to take place. The recording filename follows the standard Audiocorder format. It's important to make sure that scheduled recordings are listed in chronological order.

It's also important to make sure that each line ends with a return.

With files created using a text editor, you can place an asterisk in place of each of the dates, and Audiocorder will substitute today's date when it reads in the file. Note that this can **only** be done with text file schedules you create, not with schedules created within Audiocorder.

Schedule Window:





Recording Telephone Calls

If you have an internal modem, and it is connected to your phone line, you can use Audiocorder to record phone calls. Select the Internal Modem as the input source in the popup menu in the lower left corner of the Audiocorder window. **This works with most but not all internal modems You need to test it on your particular system to see if it will work for you, as not all Macs have the modem audio routed to the sound input device.**

When you want to record a call, click on the button with a telephone symbol on it. Audiocorder will then tell the modem to pick up the phone line. You can then manually record, or use the automated recording, to actually start and stop the recording process. When done, click on the phone button again, and Audiocorder will release the phone line. Please note that clicking on the phone button only tells the modem to pick up the phone line, it doesn't actually start the recording process.

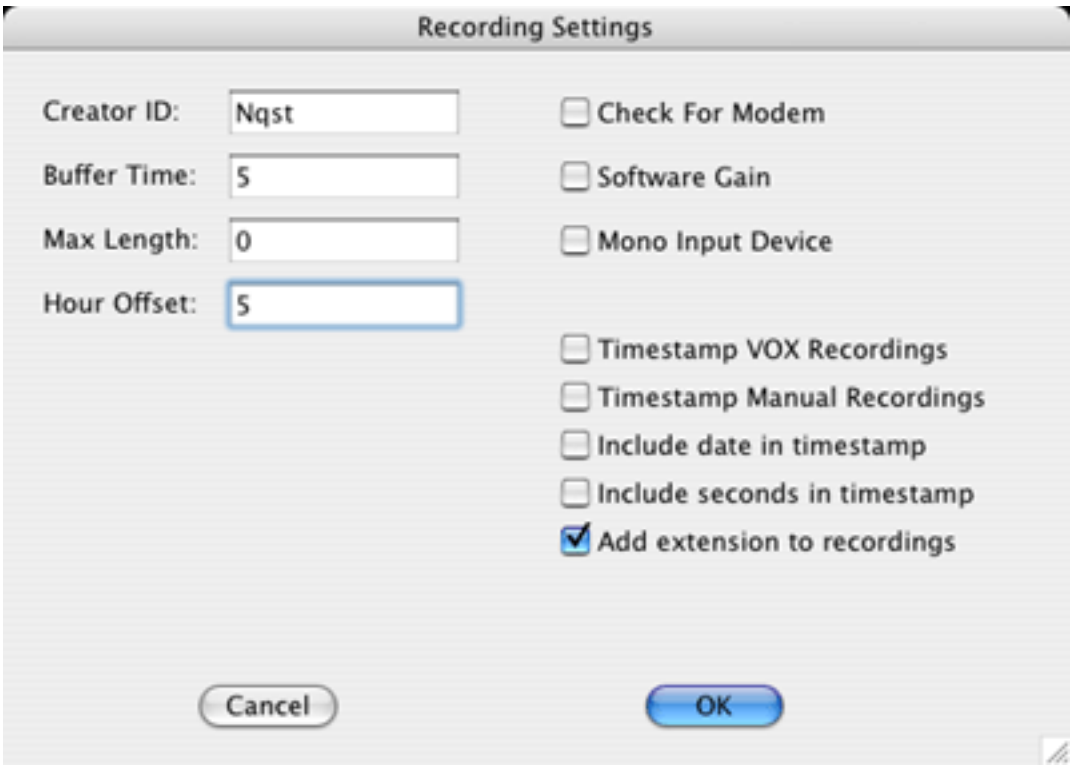
If you don't see the telephone button, make sure that you have Check For Modem enabled in the Recording Settings, and your Macintosh actually has an internal modem capable of routing audio as the input device. For example, this will not work on the iBook (and certain other Mac models as well), as the sound from the internal modem is not available for recording. Apparently this is also the cause on certain G3 desktop models. This is a hardware problem, and cannot be fixed with software!

You can script Audiocorder using Applescript to do some interesting things with the modem. You can use the SetModem command to put the modem off or on hook (pick up the phone line). You can also use the DialDigits command to have the modem produce DTMF (Touch Tone) digits. This can be useful to dial a certain phone number, enter digits to navigate a voice mail system menu, etc. If you need to set delays, you will need to use the delay feature in Applescript, please see any books or other documentation on Applescript for details on how to do this.

Please be sure to check with your local laws regulating the legality of recording telephone conversations!

Preferences / Recording Settings

By selecting **Recording Settings...** from the **File** menu (or Preferences under OS X), you can choose the sampling rate, word size, etc. These are much more easily chosen by using the pop-up menus on the main Audiocorder window. You can also select the creator ID for sound files, which allows you to specify which application should be launched if you double click on the sound file icon. You'll be presented with a display similar to this one:



These are the values you can select:

Creator ID:

Sets the Creator ID for recording files. When a recording file is double clicked, the Creator ID is used by the MacOS to select which application to run to open the file. This allows you to chose which program should play any recording files produced by Audiocorder.

Buffer Time:

When using the buffered record mode, this field specifies the number of seconds of audio from

the time before the recording started, which should be prepended to the begining of the recording file.

When using the grab mode, it specifies the number of seconds of audio to be written to the recording file.

Max Length:

If this value is non zero, it specifies the maximum length of a recording, in seconds, when time-stamped recording files are used. Once this length is reached, the current file will be closed, and a new file will be opened.

Hour Offset:

When timestamped filenames are used, this field specifies an offset (in hours) added to the timestamp, it can be used to convert local time to UTC, for example.

Check For Modem:

When clicked, Audiocorder will check for the presence of a modem when it starts up.

Software Gain:

When clicked, the input gain slider will be used to amplify the signal in software. The actual hardware gain, if any, is set to one. This is useful for recording from input devices that do not support variable gain, such as the iMic presently under OS X. Since the amplification is being done in software, the dynamic range will be reduced, and the quality will suffer as the input sound level is lower and more gain is used.

Mono Input Device:

Make sure this is selected if a monophonic input device is being used. Many USB microphones fall into this category. In incorrectly selected/not selected, garbled recordings will result. If your recordings seem to be too fast (double speed, high pitched) you probably have this enabled when it shouldn't be. As of version 3.9.0, this will be automatically checked or cleared when a USB input device is selected.

Timestamp VOX Recordings:

When checked, a voice generated timestamp will be added to the beginning of each VOX started recording. Works under OSX 10.3 or later only.

Timestamp Manual Recordings:

When checked, a voice generated timestamp will be added to the beginning of each manually started recording. Works under OSX 10.3 or later only.

Include date in timestamp:

When checked, the voice timestamp will include the date. Works under OSX 10.3 or later only.

Include seconds in timestamp:

When checked, the voice timestamp will include the seconds. Works under OSX 10.3 or later only.

Add extension to recordings:

When checked, timestamped recordings will have either .WAV or .AIF added to the end of the filename.

Buffer VOX Recordings:

When checked, VOX recordings will be buffered by the length of time specified (Buffer Time). That is, that length of audio before the VOX trigger will also be written to the recording file.

Log VOX Recordings:

When checked, the date and time of VOX recordings will be written to the file:
~/Library/Application Support/Audiocorder/VOX Log

Custom filename format:

When checked, you can use the field below to set your own filename format. The text in this field should follow the format for the strftime() function. A description of the format specifiers for this function can be found here:

http://developer.apple.com/mac/library/documentation/Darwin/Reference/ManPages/man3/strftime.3.html

Playing Back Last Recording

You can play back your last recording by selecting **Play Last Recording** from the **File** menu.

Select your file from the Open File dialog, and Quicktime player will be opened to play the file.

Applescript Commands

You can control most of Audiocorder's features using Applescript. Below is a brief description of each scripting command available:

Filename: Specify name of single file to record to

```
Filename file specification -- FSSpec for file
```

StopRecordingToOneFile: Go back to recording to timestamped filenames

```
StopRecordingToOneFile
```

PlayFile: Play a recorded file

```
PlayFile file specification -- FSSpec of recording file to play
```

PlayThru: 0 to disable playThru, 1 to enable

```
PlayThru integer
```

StartVolume: 0-100 volume to start VOX recording

```
StartVolume integer -- 0-100
```

StopVolume: 0-100 volume to stop VOX recording

```
StopVolume integer -- 0-100
```

Agc: 0 to disable AGC, 1 to enable

```
Agc integer -- 0 to 1
```

Record: Start recording

```
Record
```

Vox: 0 to disable VOX, 1 to enable

```
Vox integer -- 0 or 1
```

StopTime: 0-10 seconds VOX stop time

```
StopTime integer -- 0-10
```

StartTime:

```
StartTime integer -- 0-10
```

Unpause: stop pause, re-start recording

```
Unpause
```

SampleRate: 11025, 22050, or 44100 Hz

```
SampleRate integer
```

SampleSize: 8 or 16 bits

```
SampleSize integer
```

SampleCh: 1 (Mono) or 2 (Stereo)

```
SampleCh integer
```

SetDevice: Set audio input device

```
SetDevice string
```

SetSource: Set audio input source

```
SetSource string
```

GetDevices: Get a comma delimited list of all devices

```
GetDevices
Result:  string
```

GetSources: Get a comma delimited list of all sources for the active deviceben

```
GetSources
Result:  string
```

Format: AIFF or WAVE

```
Format string
```

GetDevice: Get name of current sound input device

```
GetDevice
Result:  string
```

GetSource: Get name of current sound input source

```
GetSource
Result:  string
```

StopRecording: Stop Recording

```
StopRecording
```

Pause: Pause Recording

```
Pause
```

GetVolume: Returns current volume, 0-100

```
GetVolume
Result:  integer
```

GetRecordingTime: Get current recording time (length) in seconds

```
GetRecordingTime
Result:  integer
```

GetStatus: Returns recording status - OFF or ON or PAUSED

```
GetStatus
Result:  string
```

Gain: 0-100 Audio input gain

Gain integer -- *gain setting 0-100*

TimedRecording: Start a timed recording

TimedRecording integer -- *seconds*

SetModem: 0 (On Hookj) or 1 (OffHook)

SetModem integer

DialDigits: Digits to dial

DialDigits string

Troubleshooting

If the recording playback speed sounds too fast, check to see if you have a monophonic USB microphone or input device. If so, be sure to check the box for monophonic input device in the preferences. Likewise, if the playback speed sounds too slow, check to see that you didn't accidently check that box when you should not have.

Please see the next chapter of this document for information on registering your copy of Audiocorder, which will remove the reminder message at the beginning of each recording.

Buying Audiocorder

Audiocorder is distributed as shareware. If you find Audiocorder useful, please buy your copy. When you purchase, Audiocorder will not prepend a short reminder message in every audio file recorded. You can pay by check or money order by printing out the form on the following page, or you can buy your copy of Audiocorder online, by visiting:
http://www.blackcatsystems.com/register/audiocorder.html

Please note that Audiocoder is in no other way crippled. If you can't make a recording, or the recording sounds garbled, then there is a problem preventing Audiocorder from properly running on your system. Registering it won't fix this problem!

Your purchase entitles you to all upgrades of Audiocorder released within one year of your registration. So you'll get all the new features and any bug fixes.

By buying your copy of Audiocorder, you'll help support my efforts to develop newer versions, and the features available. I'd like to be able to continue developing new versions of Audiocorder, so that we Mac users won't be forced to abandon the Macintosh for the wintel platform.

If you want to use Audiocorder on multiple computers, you'll need to register a copy for each computer. If you'll be using Audiocorder on many computers, you may want to take a look at our site licensing options, which can save you a great deal of money.

When you purchase Audiocorder you'll receive a registration code, by email.

Thanks again for giving Audiocorder a try.

Black Cat Systems
4708 Trail Court
Westminster, MD 21158
USA

email: info@blackcatsystems.com
Web: http://www.blackcatsystems.com/software/audiocorder.html

Order by Check or Money Order Form

To order by check, please fill out and mail the following form, along with your payment. You can pay with a wide variety of cash from different countries but at present if you pay via check, it must be a check or money order drawn in US Dollars from a US bank. While there is the risk of loss in the mail, currency is also OK, including foreign currency.

Please make sure you include your email address with your payment. That way we can send the registration code to you. If you do not send us a valid email address, we have no way to send you the code.

I would like to order _____ copies of Audiocorder at $19.99 US each.

If you'd like a copy of Audiocorder(as well as demos of all of our other programs) on a CDROM, please order one:

I would like to order _____ Black Cat Systems CDROMS at $10 US each. (incl shipping)

Name: _____

Address: _____

City: _____ State/Province:_____

ZIP/Postal Code: _____ Country: _____

Email Address: _____

Macintosh Model: _____ System Version: _____

Enclosed, please find my check / money order / cash in the amount of $_____
Maryland residents please add 6% sales tax

Mail this form, along with payment, to:

Black Cat Systems
4708 Trail Court
Westminster, MD 21158
USA

Entering Your Registration Code

When you register Audiocorder, you'll receive an email containing your registration code. Select **Enter Registration Code...** from the **File** menu, and enter the code into the window that appears, along with your Name. Please be sure to type in both the code and your name exactly as shown, as the code is locked to your name.

Audiocorder Version History

5.4.0 May 6, 2010
Added an option to custom format saved filenames.
Fixed a bug with schedules - incorrect start time.

5.3.3 October 15, 2009
Fixed a bug that caused use of timestamps to sometimes result in a crash.

5.3.2 May 29, 2009
Fixed a bug with adjusting the dates of scheduled recordings.

5.3.1 May 27, 2009
Fixed a bug with adjusting the dates of scheduled recordings.

5.3.0 May 20, 2009
Scheduled recordings for any date automatically update to the next day upon recording.
Several bug fixes with recording schedules.

5.2.0 June 26, 2008
Added an option to produce a log file of VOX recording times.
Fixed a bug with parsing schedule files.
Fixed some user interface issues with the schedule window.

5.1.5 April 3, 2008
Added an option to set the prefix for VOX generated file names.
Crash fix - when using spoken timestamps in the recording file.
Bug fix - settings were not always being saved.
Bug fix - using spoken timestamps sometimes produced a garbled recording.

5.1.4 February 28, 2008
Bug fix - schedule files would not always properly open.

5.1.3 September 21, 2007
Bug fix - if storage folder doesn't exist, files will be stored on the desktop.

5.1.2 September 20, 2007
Remembers main window position.
Bug fix - record to one file option wasn't always setting the correct recording length.
Bug fix - if storage folder doesn't exist, files will be stored on the desktop.

5.1.1 June 14, 2007
Added buffered record option to VOX recording.

5.1.0 March 6, 2007
Added Applescript commands to dial DTMF digits via the modem.
Fixed a bug with the Grab feature.

5.0.0 March 6, 2007

First release of Universal Binary version.

5.0.0b1 February 19, 2007
First beta release of Universal Binary version.

4.9.0 October 26, 2006
Added an option to put extension on the filename of automated recordings.
Added a command to play back the last recorded file.
The Playback window is no longer automatically closes when playback is done.
Fixed some bugs with the Playback window.

4.8.0 June 22, 2006
Added voice timestamp feature.
When saving to one file is selected, this setting will be remembered each time you start Audiocorder.

4.7.1 March 14, 2006
Fixed a bug that could cause a crash if the preference file is corrupt.

4.7.0 January 26, 2006
Added voice discrimination VOX recording.
Can now set maximum recording length, new recordings will start when this time is reached.

4.6.0 November 29, 2005
Improved sound quality when recording at 11 and 22 kHz sample rates.
Increased maximum VOX trigger lengths to 20 seconds

4.5.0 September 8, 2005
Added hour offset for timestamp file names
Fixed a bug that caused poorer quality for monophonic recordings.

4.4.0 August 23, 2005
Addressed several Tiger (OS X 10.4) related issues.

4.3.2 May 25, 2005
Recording schedules can now go across midnight.

4.3.1 April 19, 2005
Bug fix, all valid registration codes did not work

4.3.0 April 18, 2005
Added modem recording support to the Mac OS X version.
Grab sound feature no longer clears the buffer when used.
Fixed a bug that caused the wrong storage folder to be used immediately after it was changed.

4.2.1 January 11, 2005
Fixed a memory leak that would cause a crash under Mac OS 8/9 (and eventually in OS X).

4.2.0 December 16, 2004
Added buffered record feature.
Added Grab sound feature.
Fixed input volume indicator bug.

4.1.0 September 9, 2004
Fixed a bug that could prevent the destination folder for saved recordings to be properly used.
Fixed a bug - start and stop recording buttons were not labeled.

4.0.2 April 28,2004
Fixed a bug that could cause the recording storage folder to not be properly recalled.

4.0.1 March 18,2004
Fixed a bug with the recording to one file option.

4.0.0 February 12,2004
Added interface to iTunes

3.9.1 November 7,2003
Fixed bug - recording volume
Fixed bug - schedule sometimes displayed/used wrong date/time

3.9.0 October 19,2003
Automatically detects monophonic USB input devices
Fixes to volume display

3.8.0 September 7, 2003
Schedule can use wildcard for date to be used on any day.

3.7.2 June 16, 2003
User interface - made it more clear what the start/stop volume sliders do.

3.7.1 March 30, 2003
Fixed a bug that prevented more than 30 items in recording schedule
Added Applescript commands for timed recording.

3.7.0 February 6, 2003
Added timed recording
Changed / to - in filenames
Fixed a bug where selecting record to one file didn't bring up a Save As dialog.

3.6.2 December 31, 2002
Fixed a bug with Applescript

3.6.0 November 3, 2002
Added scissors button
Playback includes fast forward and rewind buttons, shows elapsed time, volume slider.

3.5.0 October 6, 2002
Added Applescript support
Added pause button to pause recordings
Added scissors button to manually split tracks
Now supports mono input devices (like microphones)

3.4.0 July 21, 2002
Added menu commands and keyboard shortcuts to start/stop manual recording.

3.3.1 April 30, 2002
Misc bug fixes.

3.3.0 March 9, 2002
Release version.

3.3.0b2 March 2, 2002
1. Addition of schedule window
2. Ability to play back recordings added

3.3.0b1 February 10, 2002
1. Several bug fixes

3.2.1 January 1, 2002
1. Remind message in unregistered version could sound garbled

3.2.0 January 1, 2002

1. Many OSX user interface improvements
2. Ability to change input device selection from the main window
3. Ability to save in WAVE format
4. AGC from the main window
5. Faster updates to the volume indicator

3.1.0 August 25, 2001
1. Popup menus added to easily change various settings
2. Ability to change sound input source from within Audiocorder.

3.0.0 May 13, 2001
1. Carbon support for MacOSX.

2.0.2 January 15, 2001
1. Better support for older versions of MacOS.

2.0.0 January 2, 2001
1. Can now record telephone calls from the internal modem.

1.9.9 September 29, 2000
1. Recording files are now hidden until the recording is finished.
2. Gain value is now displayed under the slider.

1.9.8 August 8, 2000
1. Added the ability to select the folder in which Audiocorder saves AIFF files.

1.9.7 July 2, 2000
1. Audiocorder now requires the recording settings to be confirmed if unregistered (to verify they are done the first time the program is run).
2. VOX now defaults to off when Audiocorder is first run.

1.9.6 June 30, 2000
1. Fixed a bug where Audiocorder would crash with a Type 4 (Divide By Zero) error if it was run for the first time, and a recording was made before the sound input settings were set.

1.9.5 June 27, 2000
1. Automatically opens schedule called STARTUP if it exists.
2. Doesn't open Recording Settings dialog on launch.

1.9.1 May 15, 2000
1. Bug fix - play-thru did not work on all Mac models.

1.9.0 May 6, 2000
1. Added ability to play AIFF files.

1.8.0 April 1, 2000
1. Added ability to select sound input device.
2. Added ability to set creator ID for recording files.
3. Added ability to change recording settings while Audiocorder is running.
4. Start/Stop buttons are correctly highlighted when in VOX mode.
5. Changed format of filenames to display the date first for better sorting in Finder.
6. Length of recording now correctly displayed for stereo mode.
7. Gracefully exit if the sound input device is already open from another application.

1.7.0 March 9, 2000
1. Added Input Gain.
2. Added VOX button to disable automatic recording.

1.6.1 January 30, 2000
1. If a sound is recording when Audiocorder is quit, it will now finish writing to the file before quitting.

1.6.0 December 12, 1999
1. Added AGC selection.
2. Fixed a bug which caused the very first part of some recordings to not be recorded.

1.5.0 November 11, 1999
Added scheduled recordingd.
Added manual start/stop recording.

1.3.1 October 8, 1999
Added Audio Play-thru.

1.3.0 September 25, 1999
Added stereo recording.

1.2.1 May 30, 1999
Fixed bugs with 16 bit recording, and recording at 11 and 44 kHz.

1.2.0 May 29, 1999
Added ability to record at different rates and sample sizes.

1.1.0 May 16, 1999
Added ability to save multiple recordings into one file.

1.0.0
Initial Release

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