

Installing AudioLeak 3

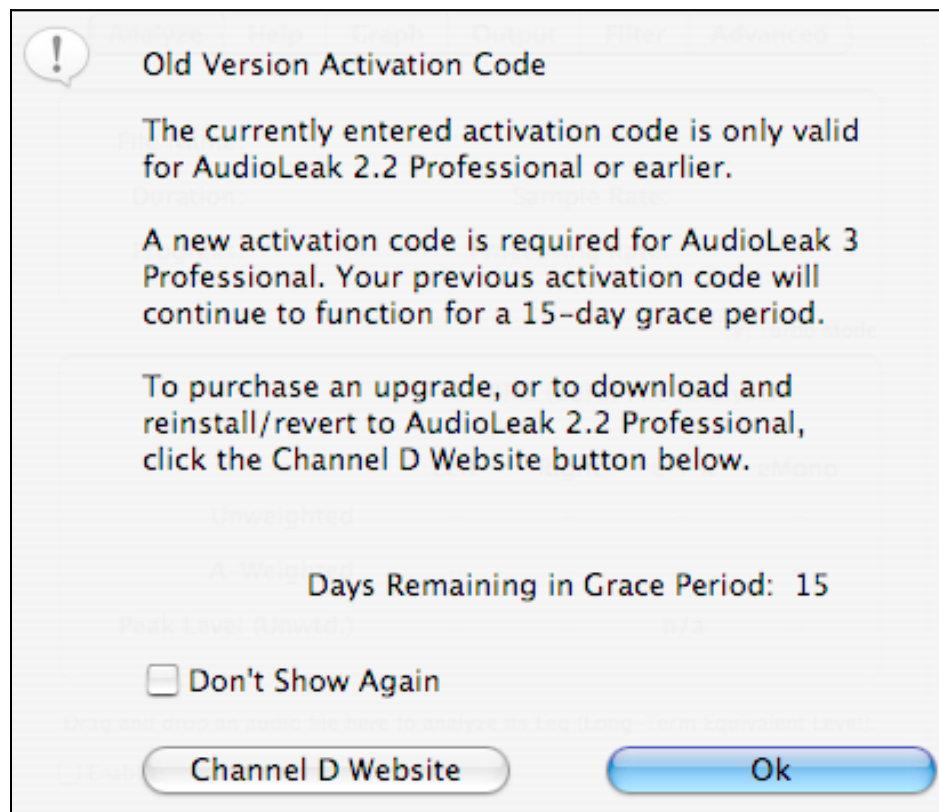
Drag the AudioLeak application to your Applications folder.

If you've installed an earlier version of AudioLeak, click Replace to confirm replacing the old version. If running AudioLeak 2.0, move the AudioLeak 2.0 Read Me.pdf file to the Trash, because the documentation has been integrated into the AudioLeak application.

AudioLeak Free

Without a purchased activation code (paid license), AudioLeak will function in **AudioLeak Free** mode, with a reduced feature set. It also can be run in Demo mode to enable additional features (purchase of an activation code is required to permanently enable the additional features).

Paid Licenses (Upgrading from AudioLeak 2 Professional)



IMPORTANT: If you have an activation code for AudioLeak 2.x Professional (the code contains the string p-20000-), it will not be recognized by AudioLeak 3 Professional.

However, AudioLeak 3 Professional will function with the old activation code for a 15-day grace period, displaying the alert shown at left (or a memo that will appear briefly in the Analyze tab).

Afterwards, without an AudioLeak 3 Professional activation code (contains p-30000-), the software will revert to Demo mode. (AudioLeak can be reverted to version 2.2 by reinstalling that version, preserving your activation code.)

Upgrades

Upgrades to AudioLeak 3 Professional from AudioLeak or AudioLeak 2 Professional can be obtained from our website at www.channel-d.com or by installing AudioLeak 3 and clicking the Purchase Upgrade button (Help > Register/Purchase tab).

Note: AudioLeak 2 (not Professional) activation codes are valid in AudioLeak 3.

System Requirements

Mac OS X 10.4 ("Tiger") or later is required. AudioLeak will not launch on earlier versions of Mac OS X. A G4 or newer CPU is required.

AudioLeak is a Universal binary that will run on Macs with either Intel or PowerPC (G4 or G5) processors. It will use CPU hardware vector processing for certain tasks and multiple CPUs / multiple CPU cores, if available.

New Features in AudioLeak 3 (compared to AudioLeak 2)

- New AudioLeak Free version (provides feature subset, without needing to purchase an activation code)
- (AudioLeak Professional) The ITU BS.1770 LKFS measurement can be performed on a live 5.1 feed
- Option to show Leq / LKFS as bar indicator in Firefly input meter
- (AudioLeak Professional) Six input channels can be displayed in the Firefly meter, showing Peak Hold, Peak and short-term RMS; plus variable integration time response Leq / LKFS as a bar indicator
- Option to link the meter and Analyze tab Reset buttons
- Show LKFS Only simplifies the Analyze tab to only show the LKFS value, in a large font size
- Updated user interface, new documentation
- much more...

About AudioLeak

The **AudioLeak** documentation can be accessed by clicking the **Open AudioLeak User Guide** button (Help tab, AudioLeak Help sub-tab) in AudioLeak.

What is AudioLeak? An audio file *Leq* analyzer

Leq (Long-Term Equivalent Level) is the averaged (RMS) loudness level for a recording.

$$\text{Leq} = 10 * \log_{10} [(\text{sum of squared sample amplitudes}) / n]$$
 where n is the number of samples.

Leq does not indicate the dynamic range of the recording (the difference between the loudest and quietest sounds), but this can be gleaned from the difference between the RMS and Peak Level as shown by AudioLeak.

Leq has come into widespread use in the motion-picture theater and broadcast (radio, television) industries. It's used to insure that different program materials are played back at perceptibly equivalent loudness levels.

An example is equalizing the playback loudness of movie trailers and the feature film in the theater. (Another example, that isn't always followed in practice, is ensuring that commercials are broadcast at the same perceived volume as other program material.)

What does this mean to you, the audio / music enthusiast? One use for this software is to quickly analyze music recordings to determine relative loudness levels, without having to listen to them. A DJ might use it to preview relative playback levels.

A very popular use for AudioLeak is setting the loudness levels of podcasts. Of course, professionals in the above industries may also find AudioLeak useful.

AudioLeak also supports the new ITU BS.1770 LKFS loudness measurement standard, that's been shown in carefully controlled listener test trials to correlate very closely with perceived loudness.

Change History

3.13

- Corrected issue where maximum of (L) or (R) was used instead of LKFS when normalizing files, if LKFS filter was selected
- AudioLeak standard version now retains preferred filter setting across launches

3.12

- Addresses issue interfering with saving images under OS X 10.7

3.1

- Added option to change integration time constant to 1/100 of the slider value (AudioLeak Professional)
- Updated use of nomenclature to eliminate confusion between RLB and R2LB filter. R2LB is the RLB filter plus a high frequency shelving filter; the combination of RLB and the shelving filter, as described in BS.1770, is the filter used for LKFS. (R2LB was the nonstandard nomenclature used by Lund in his AES paper / presentation to refer to the LKFS filter.)
- Default for AudioLeak Professional is now to **not** to run in batch mode for a single file
- AudioLeak analysis / processing results are now saved in the AudioLeak subfolder in the user's Documents folder (instead of in the user's home folder)

3.05

- Added option to alter the left-right loudness balance in the Output tab (the left channel will be biased by the entered amount in plus or minus dB)
- Corrected problem that caused output files to be created if the Scalar output option was selected, even if the Output Files check box wasn't selected
- Performance optimizations

3.04 not publicly released, testing only

3.03

- Added clarification to User Guide concerning Firefly bar meter showing **sum** of L and R RMS for Leq

3.02

- Corrected problem causing A-weighted measurements to be incorrectly offset in graph and table if 'offset 3 dB' checkbox in Filter tab (intended for filter testing) not selected
- Corrected analysis of 88.2 kHz files reporting incorrect values for A-weighted filter (introduced in AudioLeak 3)

3.01

- Corrected problem causing AudioLeak Free to run in Demo mode if AudioLeak 2 Demo had been installed and run previously

3.0

New Features

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- Option to show Leq / LKFS as bar indicator in Firefly input meter
- (AudioLeak Professional) Six input channels can be displayed in the Firefly meter, showing Peak Hold, Peak and short-term RMS; plus variable integration time response Leq / LKFS as a bar indicator
- Option to link the meter and Analyze tab Reset buttons
- Show LKFS Only simplifies the Analyze tab to only show the LKFS value, in a large font size
- Significantly updated user interface and documentation

Corrections

- (AudioLeak Professional) Changed wording of Skip Weighted Measurement for faster throughput option, to indicate that this only applies to file analysis

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