

**Expert Sleepers  
Latency Fixer  
v1.0.3  
User Manual**

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# Installation

## Mac OS X, Audio Unit (AU)

The plug-in file is called `ExS1LatencyFixer.component`.

Simply copy the file to the folder:

`Library/Audio/Plug-Ins/Components`

## Mac OS X, VST

The plug-in file is called `ExS1LatencyFixer.vst`.

Simply copy the file to the folder:

`Library/Audio/Plug-Ins/VST`

## Windows (VST)

The plug-in file is called `latencyfixer.dll`.

Simply copy the file to your VST plug-ins folder.

# System Requirements

## Mac OS X

Latency Fixer requires at least Mac OS X version 10.5.8. The plug-in is Intel-only, and built for both 32 and 64 bit. The Audio Unit version will work in any Audio Unit host. The VST version requires a “VST 2.4” compatible host.<sup>1</sup>

## Windows

Latency Fixer has been developed and tested with Windows XP SP2. It may work with other versions of Windows (Vista included) but this is by no means guaranteed. The plug-in requires a “VST 2.4” compatible host.

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<sup>1</sup> VST is a trademark of Steinberg Media Technologies GmbH.

# How to use it

## In general

The plug-in reports to the host application that it has a latency (controlled by the plug-in parameters) but does not actually apply any processing to the audio signal. This causes the host to use its own latency compensation to advance the audio fed into the plug-in by the requested amount.

This is useful to compensate for e.g. routing audio via outboard effect processors, where the audio's journey out of your audio interface and back in to the computer introduces a latency into the signal. For example you may find it useful in conjunction with Logic's Helper->I/O plug-in.

For it to work, the host application must support 'plug-in delay compensation' and the feature must be turned on. Most recent versions of all the major DAWs support this.

In general applications will not respond to changes in the latency setting during playback. If you need to interactively set the latency, try setting this plug-in to a large setting and then using my Buffer Delay plug-in to experiment with different settings. Once you've found the correct values, subtract the Buffer Delay delay from the latency setting and remove the Buffer Delay plug-in.

## AU specific instructions

Some old AU hosts (e.g. Logic 6) do not respond to changes of latency at all, even when playback is stopped. As a workaround, Latency Fixer remembers its last used settings and uses them as defaults when creating a new instance of the plug-in, which is the only time these hosts query the latency.

Most recent hosts correctly respond to changes in latency reported by the plug-in, though possibly only applying the changes when the transport is stopped and re-started, as noted above.

## VST specific instructions

Unfortunately VST hosts do not respond to changes of latency at all, even when playback is stopped. As a workaround, Latency Fixer remembers its last used settings and uses them as defaults when creating a new instance of the plug-in, which is the only time VST hosts query the latency. So the required setup is as follows:

- Load the Latency Fixer plug-in on a track.
- Set the desired latency via the plug-in's parameters.

- Unload the plug-in.
- Load the plug-in again.

At this point the host will read the previously set values and use that latency. If you need to change the latency again, you need to unload and reload the plug-in again.

# Donationware

This software is free - you may use it however you see fit. However you may not redistribute it, pass it off as your own, charge money for it etc.

This software comes with no warranty (it's free after all!). Having said that I'm more than happy to hear from you if you find a problem & most likely I'll do my best to fix it.

Please support my work by buying one of my CDs - follow the links on the website, or go to [www.burningshed.com/store/darkroom/](http://www.burningshed.com/store/darkroom/)

You can also donate via PayPal - just follow the link on the website ([www.expert-sleepers.co.uk/downloads.html](http://www.expert-sleepers.co.uk/downloads.html)).

# Version History

## **1.1.0 10/3/2010**

- First 64 bit AU release.
- First VST releases.

## **1.0.2 12/6/2008**

- Fixed a problem where the correct latency would not be applied when recalling a preset.

## **1.0.1 6/5/2006**

- First Universal Binary version.

## **1.0.0 31/10/2004**

- First release (AU only).

# Contact

The Expert Sleepers website is here:

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Or you can email

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Or you can use the forum, which is here:

<http://www.kvraudio.com/forum/viewforum.php?f=85>