

The Caiman USB input and WASAPI Mode in Windows rev.6

Configuration instructions for the Caiman MKII and Caiman SEG

If you wish to play high definition audio files via USB through the Caiman at the sample rate in which they were recorded, you must use a special mode called WASAPI. The WASAPI mode is part of the Windows OS. There is no need to install it or turn it on, but WASAPI mode can only be used by playback programs that are specifically designed to use it. Windows Media Player does not support WASAPI mode.

WASAPI mode is normally independent of the audio playback device you're using. But if WASAPI mode attempts to send audio to a device at a sample rate which is not supported by the hardware or drivers, you will receive an error message. The Caiman supports many of the WASAPI commands however, and can be configured to respond to certain audio data as long as the audio playback program used is set up to allow those WASAPI commands to pass unhindered to the Caiman via the USB connection together with the audio.

This document explains how to configure WASAPI mode for some popular Windows PC audio player programs so that the Caiman SEG can decode sample and bit rates that would otherwise be rejected by the audio playback program.

NOTE: WASAPI is a Windows interface mode. You do not need to install any WASAPI drivers for the Caiman.

NOTE: Windows "itself", and Windows Media Player, do NOT use WASAPI Mode. WASAPI Mode must be configured in EACH player program that you wish to use it with.

Configuring jRiver Media Center to use WASAPI Mode Supports PCM files up to 358.2kHz (AIFF) and DSD64

To configure WASAPI Mode in jRiver Media Center, do the following:

- 1 (If you haven't already) install and run the *jRiver Media Center program*.
- 2 Under the *Tools* menu, go to *Options*.
- 3 Select the *Audio* category.
- 4 On the right, under *Audio Device*, select **SPDIF interface (USB audio device) [WASAPI]**.
- 5 Now, under *Audio Device*, click *Device Settings*. (This option won't be available until you select the Audio Device in the previous step).
- 6 In *Device Settings...* Check the box next to *Open device for exclusive output*.
- 7 Uncheck the box next to *Disable event style*. Leave *Bit Depth* set to *Automatic*. Leave *Buffering* set to *100 milliseconds*.
- 8 Click *OK* twice to save your settings and exit.

NOTE: Configuring WASAPI Mode in jRiver Media Center will NOT configure Windows itself, or other Windows audio player programs (including Windows Media Player) to use WASAPI.

Configuring Foobar2000 To Use WASAPI Mode Supports PCM files up to 192kHz

To configure WASAPI Mode in Foobar2000, do the following:

- 1 (If you haven't already) install and run Foobar2000.
- 2 Download the *WASAPI Output Support plugin* for Foobar (from the *Components* page)
- 3 Double click on the *WASAPI Output Support plugin* to install it (Reply to any prompts as necessary.)
- 4 Under the *Files* menu, go to *Preferences*.

- 5 Click on the *Components* category.
- 6 Locate *WASAPI output support* in the components list and click once on it to highlight it.
- 7 Click *Apply* to activate the *WASAPI plugin*.
- 8 Click on the *Playback* category.
- 9 Under *Playback*, click on the *Output* category.
- 10 Use the *Device* pull down list to select **DS: SPDIF interface (USB audio device)**.
- 11 Click *Apply* to accept your changes.
- 12 Click *OK* to exit Foobar2000 configuration.

NOTE: When you choose an output device in Foobar2000, that output device will be used by Foobar, but will not become the Windows default output device. (If you configure things this way, Foobar2000 will play music through your Caiman DAC, but Windows noises and other sounds may be configured to play through other devices - like your computer's speakers.)

Configuring WASAPI Mode in Foobar2000 will NOT configure Windows itself, or other Windows audio player programs (including Windows Media Player) to use WASAPI.

Configuring Media Monkey 4 To Use WASAPI Mode

Supports PCM files up to 358.2kHz (AIFF) (visit our website for the DLL)

To configure WASAPI Mode in Media Monkey 4, do the following:

- 1 (If you haven't already) install and run Media Monkey 4.
- 2 Under the *Tools* menu, go to *Options*.
- 3 Under the *Player* category pick *Output Plug-ins*.
- 4 Click the radio button next to *MediaMonkey WASAPI output*.
- 5 Click *Configure*.
- 6 On the *MediaMonkey WASAPI output plugin* configure page... Select *USB2.0 High-Speed True HD Audio* as your output device (you may also select *Default Device* IF your Caiman-DAC is configured to be your Windows default output device).
- 7 Uncheck the box next to *Exclusive Mode*.
- 8 Click *Advanced*.
- 9 On the *Advanced* screen... CHECK the box next to *Event driven Exclusive mode (recommended)*.
- 10 CHECK the box next to *Event driven Shared mode (recommended)*. But you can also try selecting the UNCHECK box option and decide from listening to music which one works best for you.
- 11 Click *OK* three times to save your settings and exit.

Configuring WASAPI Mode in Media Monkey will NOT configure Windows itself, or other Windows audio player programs (including Windows Media Player) to use WASAPI.

NOTE: Media Monkey lets you explicitly choose an audio output device, or simply tell it to use the Windows default setting. If you set the Caiman to be your default audio output device (in Control Panel), then Windows programs without specific output settings will use it, and Media Monkey will use it if you set Media Monkey to use the Default Device. However, if you specifically set Media Monkey to use the Caiman, but you DON'T set the Caiman as your Windows default output device, then Media Monkey will use it but other Windows devices will not. (If you configure things this way, Media Monkey will play music through the Caiman, but Windows noises and other sounds may be configured to play through other devices - like your computer's speakers.)