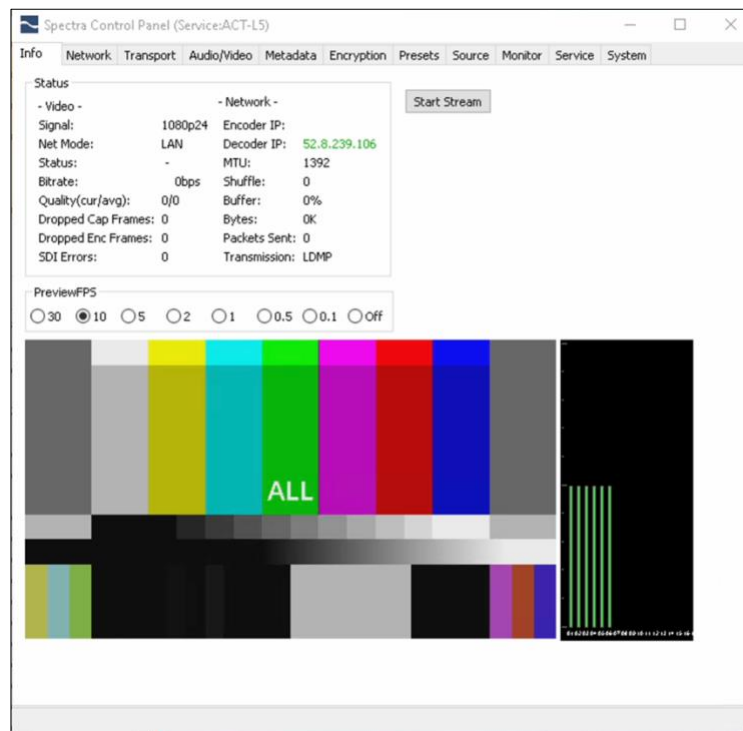




Setup Guide

for

16-ch Audio for DaVinci Resolve (Windows, Streambox ASIO driver)



Note: This document reflects the current feature-set which may change without notice (February 2024). We will attempt to keep all users up to date on any changes.

Document version

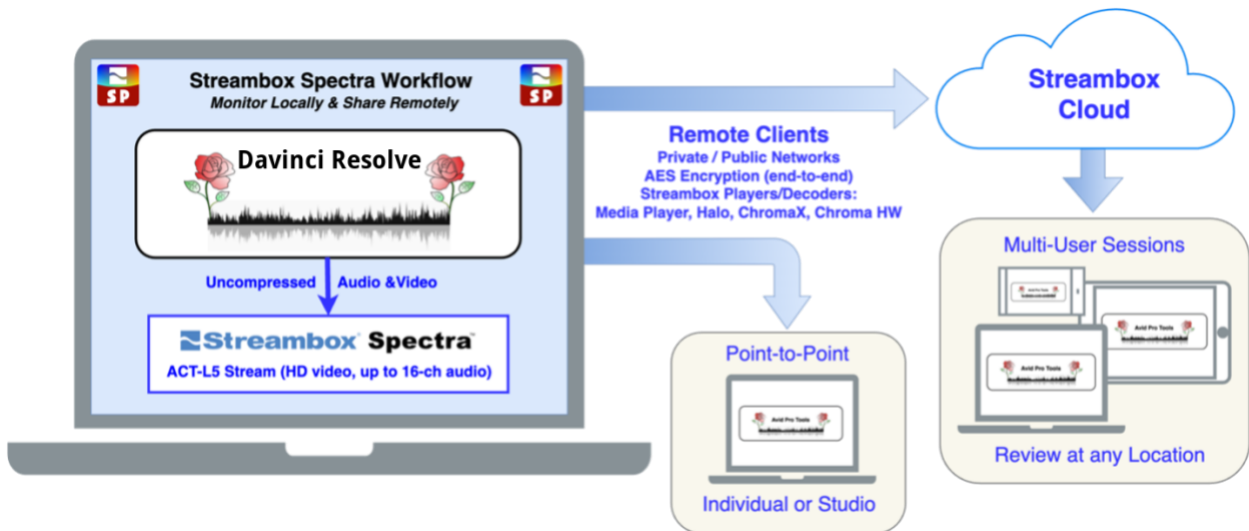
1.0 Feb 18, 2024 – Windows beta version 1.95

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Streambox Spectra for Windows (DaVinci Resolve® setup)

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Introduction



Spectra for DaVinci Resolve (Windows) is a software solution designed to aid audio professionals in their remote work. Spectra simplifies remote audio and video reviews, eliminating the need for complex hardware and software setups. With Spectra, you could operate from both Cloud Instance or directly from your PC, without the need for any external audio hardware or an additional video encoder.

We are introducing Audio Only encoding Mode for Spectra to facilitate low latency audio streaming for remote reviews for Sound Postproduction.

For the recipients of your streams, Streambox provides free Streambox Media Players from our website and the Apple Store, as well as Streambox Iris software which can be used to connect with Blackmagic Design output hardware. Dedicated hardware appliances like Halo, Chroma-X, and Chroma are also available for those who require a more comprehensive studio setup.

With Spectra, remote reviews are made easy. You could use Point-to-Point workflow, Cloud services or StreamOn Server for multi-user sessions, providing flexibility and ease of use for all users on both sides of the workflow To access formats above 8CH

Installing Beta version for Windows

If you have previous version of “Streambox Spectra” or “Spectra ASIO”¹ installed, we recommend uninstalling it first, using “Add and Remove Programs” of Windows System Settings.

Installing Streambox Spectra

For Windows systems, download, unzip and run **Spectra.exe**

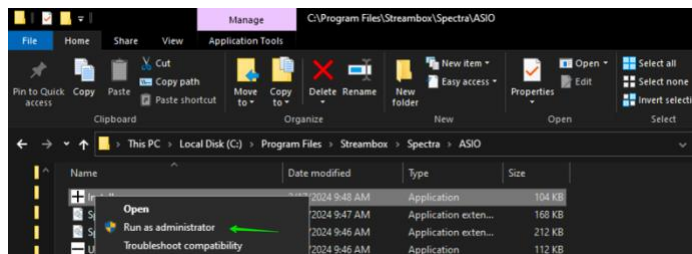
https://streambox-Spectra.s3-us-west-2.amazonaws.com/1.95.0.0/win/streambox_Spectra_win_1.95.0.0.zip

For Windows systems with support for **AWS CDI**, download, unzip and run **Spectra_cdi.exe**

https://streambox-Spectra.s3-us-west-2.amazonaws.com/1.95.0.0/win/cdi/streambox_Spectra_cdi_win_1.95.0.0.zip

Installing ASIO drivers

Open **C:\Program Files\Streambox\Spectra\ASIO** folder. Right click on the file **Install** and Select “Run as Administrator”. If the Install reports an error, you might have DaVinci Resolve or other applications with ASIO support opened that is preventing installation or ASIO drivers.



Optional Switch Spectra to User Space Mode for Passthrough to local Audio device

See [Enabling User Space mode for Source Audio Monitoring](#)

¹ ASIO is a trademark and software of Steinberg Media Technologies GmbH

DaVinci Resolve Setup

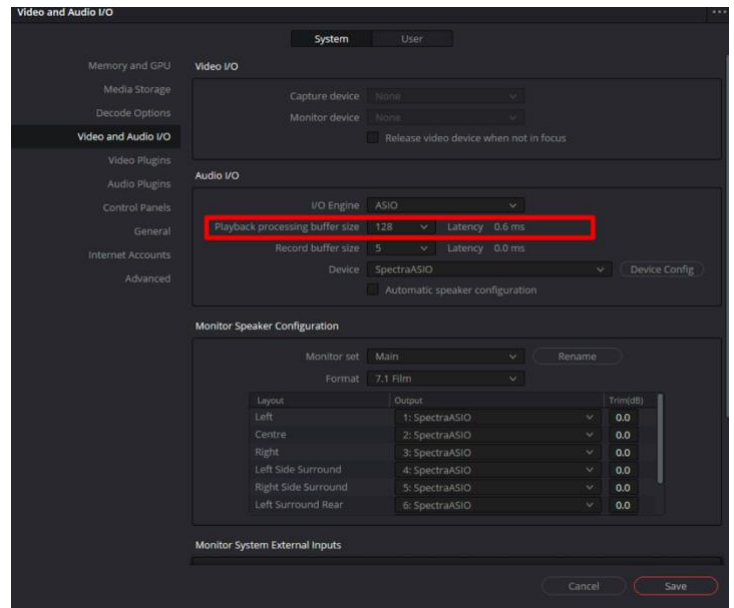
Setting Up ASIO output

Open the 'Preferences' dialog in DaVinci Resolve menu.

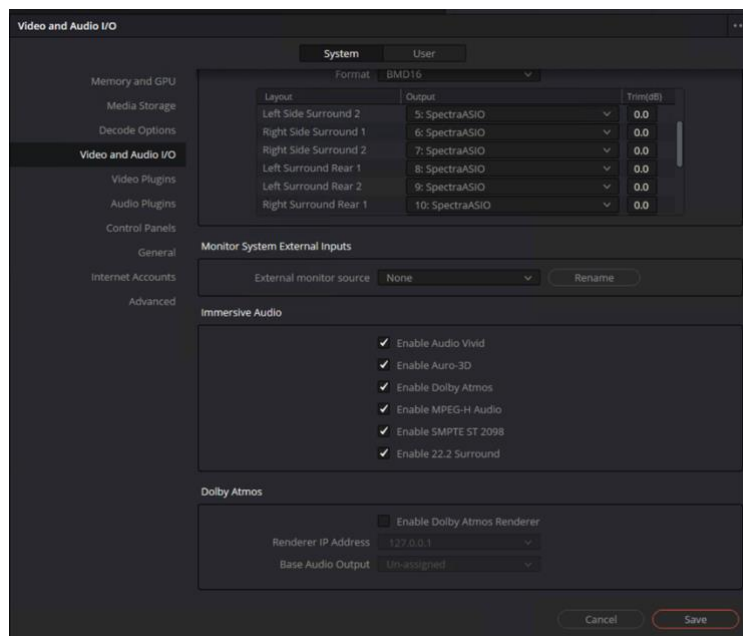
Navigate to the Video and Audio I/O Tab.

In Audio I/O section, set the following settings:

- I/O Engine
- Select Spectra ASIO
- Playback processing 128–1024 (recommended)
- Device: Select Spectra ASIO
- Uncheck: Automatically configure channels
- Select appropriate format: e.g. 5.1, 7.1 BMD16



Assign Monitor Output channel layout to appropriate Spectra ASIO channels, e.g. 1:SpectraASIO, 1:SpectraASIO etc.



Note:

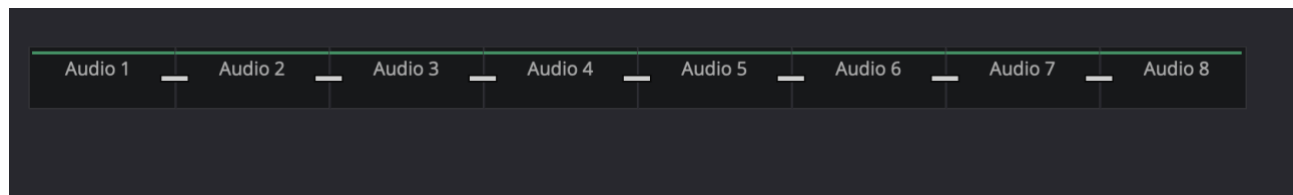
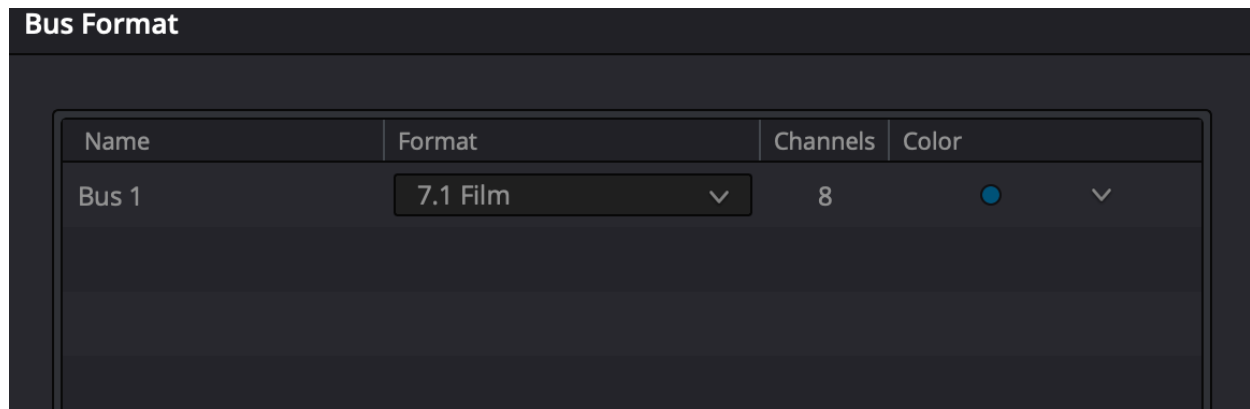
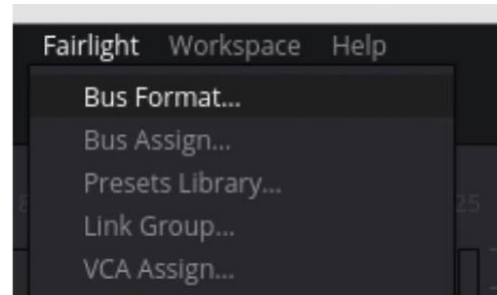
To access formats above 8CH requires you to enable 3D audio formats in this window. You might need to restart DaVinci resolve to apply the changes.

Playback processing buffer below 1024 may cause Audio Levels preview in Spectra to be empty in this beta release.

Streambox Spectra for Windows (DaVinci Resolve® setup)

Fairlight Configuration

Navigate to. Fairlight menu and select '**Bus Format**'.
Make sure 'Bus 1' is set appropriate format e.g. 5.1, 7.1
and click OK



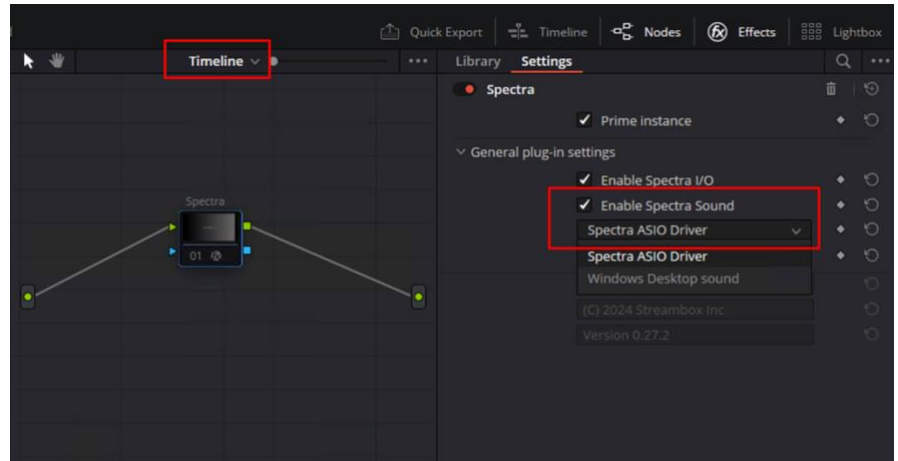
You may need to “Link Group” depending on your Audio Tracks configuration.

Streambox Spectra for Windows (DaVinci Resolve® setup)

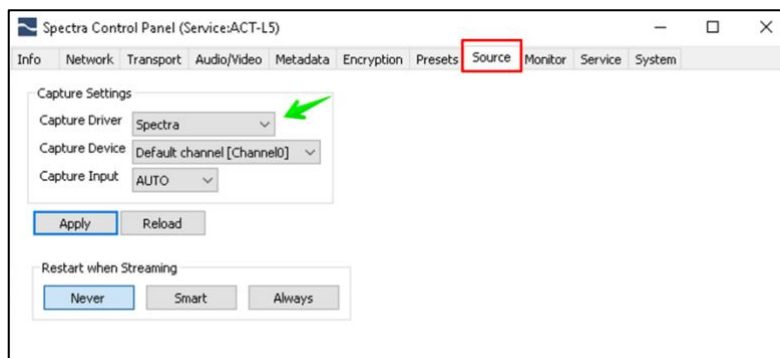
Setting Up OpenFX Spectra plugin

Add Spectra OFX plugin to Timeline node/Color Page: Click on Color Page, Select Timeline nodes and Add Spectra Node.

In Spectra Node Settings, make sure the "Enable Spectra Sound" is checked and the *Spectra ASIO* driver is selected.



If you now start playback, you should see the video preview on Spectra's Info page. If the video is not displayed, check to see that the source selected on Spectra's source tab (red outline, lower image) is Spectra (green arrow). Always click 'Apply' with any changes.



Configuring Spectra

Below are some Spectra settings that are applicable to DaVinci Resolve streaming. Please refer to the full Setup Guide for more details: Go to <https://www.streambox.com/resources> and select the 'Spectra' category. Use this link for startup Spectra Guide: [Click to View](#)



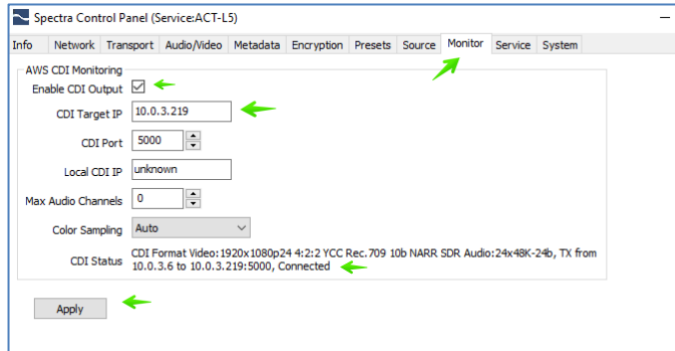
A/V Settings (Audio/Video tab)

The Audio/Video page is where you set the properties for the video stream. For more detail refer to guides found at <https://www.streambox.com/resources> and select the 'Spectra' category.

Use this link for Spectra Quickstart Guide: [Click to View](#)

Streambox Spectra for Windows (DaVinci Resolve® setup)

Configuring AWS CDI output



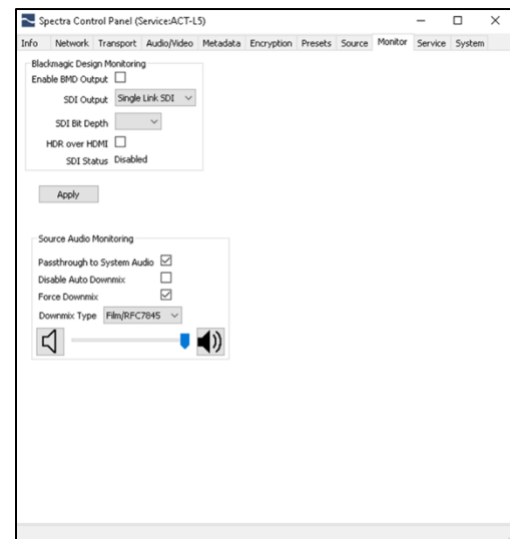
To enable AWS CDI output, Switch to monitoring tab, and Enter CDI Target IP to send CDI signal to. Enable CDI output Check box and Click Apply. CDI status should display connected once CDI receiver accepted the signal from Spectra

Some example of CDI receivers are [AWS MediaConnect](#) or [Streambox Bridge](#).

Source Audio Monitoring (Monitor tab)

Selecting 'Passthrough to System Audio' allows the user to hear audio on the local device, e.g. Your Speakers. If the local device only supports stereo and the audio format is 7.1 or less, an automatic downmix will be provided. You can override this feature here.

Note: Currently we require 48Khz capable audio device for monitoring. 44.1KHz only devices can cause delay with Monitoring audio. Windows Remote Desktop Audio is such device.



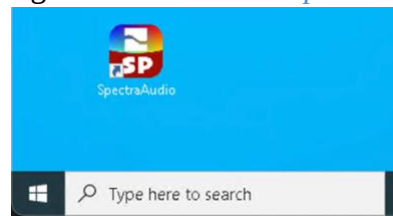
Enabling User Space mode for Source Audio Monitoring.

You can skip this section if sound is playing back when "Passthrough to System Audio" is enabled.

Some Windows installations will block local audio playback from Services/Local system account. You may resolve this by switching Spectra to User Space mode:

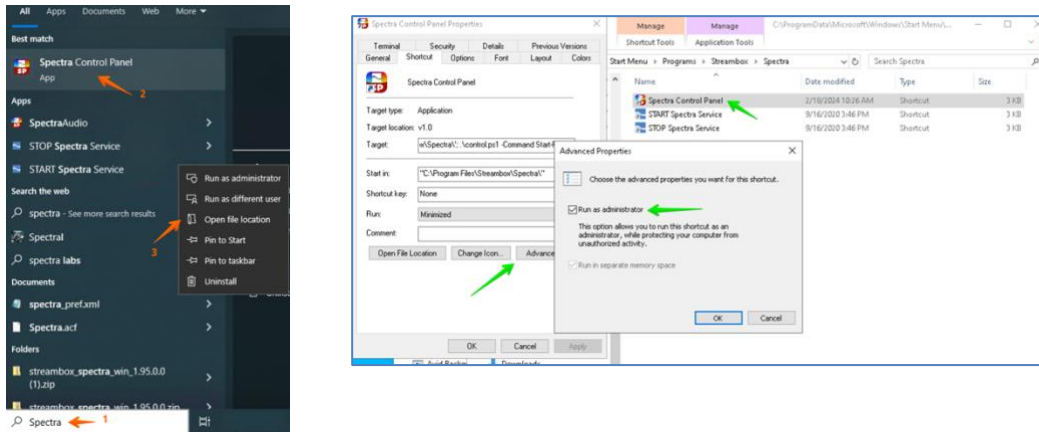
Navigate to C:\Program Files\Streambox\Spectra and

right click on [DisableSpectraAsService.ps1](#) file and select "Run with PowerShell". This will switch Spectra Encoders to User Space and install [SpectraAudio Shortcut](#) on Desktop. Please use this shortcut to Start Spectra. SpectraAudio will start Spectra as Administrator in order to communicate with the ASIO plugin. You can also enable the main Spectra Shortcut to Run as Admin:



Search "Spectra" in start menu, right click "Spectra Control Panel" and Open File Location, Right Click on "Spectra Control Panel" select Properties, then advanced and check "Run as Administrator", OK and Apply. See Screenshots below.

Streambox Spectra for Windows (DaVinci Resolve® setup)

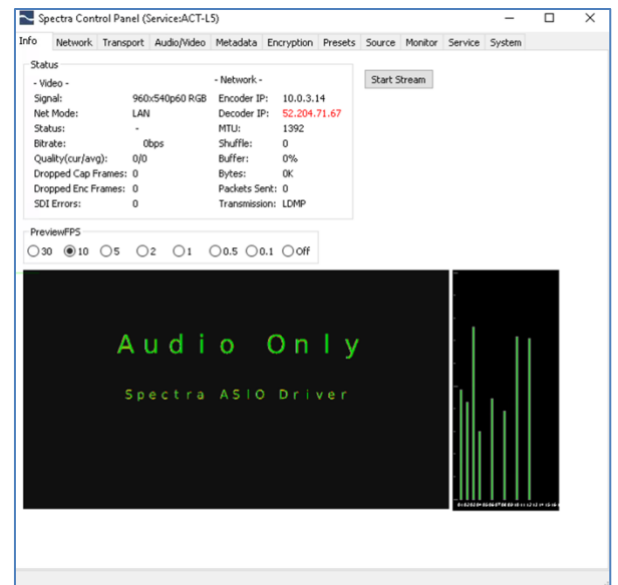
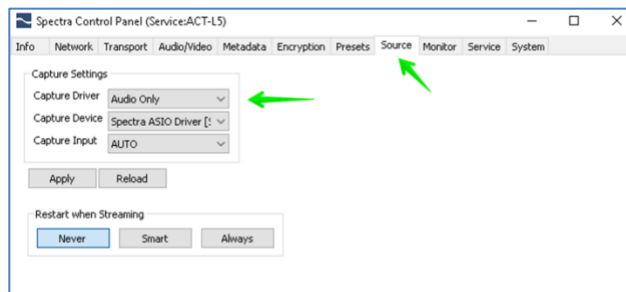


To revert Spectra to Service mode, use [EnableSpectraAsService.ps1](#) script.

Audio Only Mode

We are introducing an “Audio Only” mode for Audio workflows without need for video or where video is not available.

Open Source Tab in Spectra Control Panel and Select “Audio Only” for the Capture Driver setting.



Current Beta Limitations:

Only ASIO driver input is supported in Windows.

Current AWS CDI build does not have “Audio only” enabled.

Troubleshooting

No Audio Monitoring sound:

First enable “Passthrough to System Audio” on the Monitor Tab.

If that doesn’t work, the Windows Sound Subsystem might be blocked from playing sound from System Services.

Follow [Enabling User Space mode for Source Audio Monitoring](#) instructions.

Enable Log Files for Support:

Navigate to [C:\Program Files\Streambox\Spectra](#), right Click on “[EnableSpectraLogs.ps1](#)” and select “Run PowerShell”

Then Start Spectra and DaVinci Resolve. This will start generating logs in the

[C:\ProgramData\Streambox\SpectraUI\log](#) folder for Plugin, Spectra Encoder and ASIO drivers.

You can email the logs to beta@streambox.com with the problem Description.

To disable logs run [DisableSpectraLogs.ps1](#)

Streambox Playback Clients and other resources

Streambox Media Player (Free: [macOS, iPad/iOS OS, Apple TV, Windows](#))

[Apple AppStore](#)

[Manual for Multichannel Audio Playback](#)

[Streambox Cloud Session Guide](#)

[Streambox Spectra User Guide](#)

[Streambox Iris](#) [Streambox Halo](#)

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Streambox Spectra for Windows (DaVinci Resolve® setup)

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