<u>Mytek Stereo192-DSD DAC Software</u> <u>Setup User Guide v.2</u>

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Introduction

This guide is to provide basic installation and setup instructions for the **Mytek Stereo192-DSD DAC** with Music Servers supporting DSD playback. These configurations are the results of extensive testing and development to provide the best possible user experiences.

A note about DSD audio. DSD in it's common form is DSD64x, this is the native format of SACDs. 64x refers to 64 x CD quality (44.1 khz sampling frequency) with the advent of direct digital playback using the computer and certain hard disk recorders DSD128x is now possible. This format allows for 128 x CD quality and further pushes digital fidelity towards a more accurate natural listening experience. The **Mytek Stereo192-DSD DAC** supports both DSD64x and DSD128x playback. Currently DSD128x is implemented with Windows, USB2, ASIO Drivers and Native DSD Streaming. Future firmware revisions will allow for DOP playback of DSD128x files on both OSX and Windows.

These Music Servers herein support PCM (.wav, .aif, .mp3. flac, etc) files up to 32 bits at 192 khz and Native DSD64x and DSD128x (.dff, .dsf, .iso) files. Meaning Audio files are played back "Bit Perfect" with no upsampling, downsampling or conversion (unless so desired). The **MYTEK Stereo192-DSD DAC** offers the choice between USB2.0 and FireWire for each software option giving users ultimate flexibility in configuring their unique listening experiences.

System Requirements

4 GB of RAM or more, Windows 7 or later, OS X 10.6 or later.

The latest Firmware and Drivers from http://mytekdigital.com/hifi

Windows Setup

Foobar2000 Installation

- 1. Begin by downloading all the necessary components from the internet
 - The latest Foobar2000 installer from: <u>http://www.foobar2000.org/download</u>
 - The latest foo_input_sacd from: <u>http://.net/projects/sacddecoder/files/foo_input_sacd/</u>
 - The foo_asio 2000 component from: <u>http://www.foobar2000.org/components/view/foo_out_asio</u>
 - The foo_wasapi component from: <u>http://www.foobarorg/components/view/foo_out_wasapi</u>
- 2. Launch the Foobar2000 installer.



3. Inside the Foobar2000 installer click NEXT when prompted.



4. Click I agree to accept the License Agreement



5. Select STANDARD installation and click NEXT

| ۲ | foobar2000 v1.3 Setup | - | | × |
|---|---|-------|------|----|
| FIER | Choose Install Type Choose standard install or portable install. | | | |
| Standard instal Install foobar2000 | lation) for all users of this machine. | | | |
| 🔿 Portable install | ation | | | |
| In portable mode information is writ | all configuration data is stored in the application folder a ten to the registry. Does not support file association. | nd no | | |
| NSIS v2 | < Back 🔞 Next > | | Canc | el |

6. Ensure that the install location is C:\Program Files (x86)\foobar2000 and click NEXT

| ۲ | foobar2000 v1.3 Setup | - 🗆 🗙 | | | | | |
|---|--|--|--|--|--|--|--|
| FBZK | Choose Install Location Choose the folder in which to install fooba | Choose Install Location Choose the folder in which to install foobar2000. | | | | | |
| Setup will install foob and select another fo | ar2000 in the following folder. To install in a differe Ider. Click Next to continue. | nt folder, click Browse | | | | | |
| Destination Folder | (x86)\foobar2000 | Browse | | | | | |
| Space required: 9.2 M Space available: 302, NSIS v2 | ИВ .8 GB | | | | | | |
| | < Back Next | > Cancel | | | | | |

7. Choose FULL under the type of installation.



8. When Setup has completed Uncheck "Run foobar2000" and click FINISH



9. Locate the foo_input_sacd Installer .zip



10. Right click and choose EXTRACT ALL



11. Inside the extracted folder (This should automatically launch) Launch the foo ASIO installer



12. Click next to begin installing foo ASIO support

| 覺 ASIO Proxy for foobar2000 Setup: Installatio 🗆 🗙 | | | | | | | |
|--|--|--|--|--|--|--|--|
| Check the components you want to install and uncheck the components you don't want to install. Click Next to continue. | | | | | | | |
| Select components to install: | | | | | | | |
| Space required: 217.0KB | | | | | | | |
| Cancel Nullsoft Install System v2.46 Next > | | | | | | | |

13. Choose the location of foo ASIO install to be the same place foobar is installed (windows 32: C:\Program Files\foobar2000, windows 64: C:\Program Files (x86)\foobar2000) Click INSTALL

| 🕼 ASIO Proxy for foobar2000 Setup: Installatio 🗕 🗆 🗙 | | | | | | |
|--|--|--|--|--|--|--|
| Setup will install ASIO Proxy for foobar2000 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation. | | | | | | |
| Destination Folder | | | | | | |
| C:\Program Files (x86)\foobar2000 Browse | | | | | | |
| Space required: 217.0KB Space available: 302.8GB | | | | | | |
| Cancel Nullsoft Install System v2,46 < Back Install | | | | | | |

14. Click CLOSE when installation is complete

| 🛱 ASIO Proxy for | foobar2000 Setup: | Completed | - | | |
|------------------|--------------------------|-----------|---|-------|--|
| | | | | | |
| Show details | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Cancel Nulls | oft Install System v2,46 | < Back | | Close | |

15. Launch foobar2000



16. Upon first launching foobar is will ask you to choose your preferred user interface (Album list + properties + Visualization is a good start)



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17. Inside foobar2000 go to File>Preferences

| ÷ | | | | | 4 |
|------|-------------------------------|-----------|---------|------|---|
| File | Edit View | Playback | Library | Help | |
| 7 | Open Open audio CE | Ctrl) | +0 | | |
| | Add files Add folder | | | | |
| | Add location | Ctr | I+U | | |
| | New playlist Load playlist | Ctrl | +N | | |
| | Save playlist | Ctr | 1+5 | | |
| | Preferences | Ctr | I+P | | |
| | Exit | | | | |
| | | | | | |
| | | | | | |

18. Select the top tap called COMPONENTS. Click Install

| | Preferences: Compo | nents | ? × |
|---|--|--|--|
| Components | Installed components: | Riç | ght-click a component for additional options. |
| ▷ · Display | Name | Version | Module |
| Keyboard Shortcuts Media Library Networking Playback Shell Integration Tools Advanced | Album List CD Audio Decoder Converter Default User Interface Equalizer File Operations foobar2000 core Online Tagger ReplayGain Scanner Standard DSP Array Standard DSP Array ZIP/GZIP/RAR Reader | 4.5 3.0 1.5 0.9.5 1.0 2.2 1.3 0.7 2.2 1.3 1.0 1.6 | Module foo_albumlist foo_converter foo_ul_std foo_fileops Core foo_freedb2 foo_rgscan foo_unput_std foo_unpack |
| | Get more components Why are some components grayed out Reset all Reset page | <u>2</u> | install Copy report Get updates OK Cancel Apply |

19. Point the browser to the location where you downloaded **foo_out_asio** and select **foo_out_asio**. Now click OPEN

| | | Install Component | | | | | |
|-------------|------------|-------------------------------|---|--------------------|-----------------|--|--|
| € ∋ - 1 | 🌗 🕨 Foo | Out ASIO | | | | | |
| Organize 🔻 | New folder | | | | | | |
| 🔶 Favorites | ^ | Name | Ŧ | Date modified | Туре | | |
| Copy | | 📷 foo_out_asio.fb2k-component | | 21/1/2014 12:49 PM | foobar2000 Comp | | |
| 📰 Desktop | | | | | | | |
| 📙 Downloa | ds | | | | | | |
| 📃 Recent p | laces | | | | | | |

20. Upon returning to the COMPONENTS tab Click Install again.



21. Point the browser to the location where you downloaded foo_input_sacd-0.XXX component and select foo_input_sacd-0.XXX component. Now click OPEN

| Ŷ | | Install Component | | | | × |
|-----------------------|-----------------------------------|-------------------|-----------------|--------|-----------------------------|-----|
| 🔄 🍥 🕆 🚹 🕨 Foo | Input SACD > foo_input_sacd-0.6.6 | | | ~ ¢ | Search foo_input_sacd-0.6.6 | Q, |
| Organize 🔻 New folder | , | | | | | 0 |
| ☆ Favorites | Name | Date modified | Туре | Size | | |
| Copy | 鷆 filters | 21/1/2014 1:51 PM | File folder | | | |
| 🛄 Desktop | 鷆 src | 21/1/2014 1:51 PM | File folder | | | |
| 📜 Downloads | a foo_input_sacd.fb2k-component | 21/1/2014 1:51 PM | foobar2000 Comp | 157 KB | 3 | |
| 📃 Recent places | | | | | | |
| 🦰 Librarias | | | | | | |
| Documents | | | | | | |
| Music | | | | | | |
| E Pictures | | | | | | |
| 🗐 Subversion | | | | | | |
| 😸 Videos | | | | | | |
| 🤞 Homegroup | | | | | | |
| 💻 Computer | | | | | | |
| Local Disk (Ci) | | | | | | |
| File nar | me: foo_input_sacd.fb2k-component | | | ~ | foobar2000 components (foo_ | * ¥ |
| | | | | | Open Cancel | |

22. Upon returning to the COMPONENTS tab Click Install again.



23. Point the browser to the location where you downloaded foo_out_wasapi component and select foo_out_wasapi component. Now click OPEN

| | In | stall Component | | | | × | |
|--|-----------------------|-------------------|-----------------|----------|---------------------------------------|---------------|--|
| (e) → ↑ → Foo Out WASAPI | | | | | ♥ 🖒 Search Foo Out WASAPI | | |
| Organize 🔻 New folder | r | | | | 8≡ ▼ | 0 | |
| ☆ Favorites | Name | Date modified | Туре | Size | | | |
| Copy Desktop Downloads Recent places Libraries Documents Music Pictures Subversion Videos | ₩ASAPI.fb2k-component | 21/1/2014 2:22 PM | foobar2000 Comp | 163 KE | 1 | | |
| I Computer | | | | | | | |
| File na | me: | | | ~ | foobar2000 components (fo Open Can | oo_* ♥ cel | |

24. Still within the COMPONENTS tab Click APPLY



25. A screen will appear "Applying changes requires foobar2000 to be restarted" Click OK

| foobar2000 preferences | × |
|---|---|
| Applying these changes requires foobar2000 to be restarted. Continue? | |
| OK Cancel | |

26. Installation complete!

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USB2.0 ASIO Setup with DoP DSD

1. Inside foobar2000 go to File>Preferences

| | Preferences: Compo | nents | ? 🗙 |
|--|---|--|--|
| Components | Installed components: | Rig | ght-click a component for additional options. |
| ▷ · Display | Name | Version | Module |
| Display Keyboard Shortcuts Media Library Networking Playback Shell Integration Tools Advanced | Name Album List ASIO support CD Audio Decoder Converter Default User Interface Equalizer File Operations foobar2000 core Online Tagger ReplayGain Scanner Standard DSP Array Standard Input Array Super Audio CD Decoder WASAPI output support ZIP/GZIP/RAR Reader | Version 4.5 2.1.2 3.0 1.5 0.9.5 1.0 2.2 1.3 0.7 2.2 1.3 1.0 0.6.6 3.2.3 1.6 | Module Image: Module foo_albumlist foo_out_asio foo_converter foo_dsp_eq foo_dsp_eq foo_fileops Core foo_freedb2 foo_jnput_std foo_input_std foo_out_wasapi foo_unpack |
| | Get more components Why are some components grayed out | <u>t?</u> I | nstall Copy report Get updates |
| | Reset all Reset page | | OK Cancel Apply |

2. Goto Playback>Output>ASIO

| Components Display Keyboard Shortcuts Media Library Networking Playback Playback OSP Manager Output Shell Integration Tools Advanced |
|---|

3. Inside the list of ASIO drivers Double Click foo_dsd_asio

| ASIO drivers | |
|-------------------------|---|
| Abio differs | |
| ASIO Hammerfall DSP | MT ASIO Bridge |
| ASIO Hammerian DSP | MI ASIO BRIDE Mutale Sci 1936 DES ASIO |
| Dance virtual Soundcard | Mytek 6x192ADDA DIO ASIO |
| | Mytek STEREO192-DSD DAC ASIO |
| JPLAY Driver | ASIO Mytek_FireWire |

4. A small dialogue will appear (it may not come to the front but should be visible from the task bar). Under ASIO Driver select **Mytek STEREO192-DSD DAC ASIO**.

| | foo_dsd_asio v0.6.5 | × |
|----------------------|------------------------------|---|
| ASIO Driver: | Mytek STEREO192-DSD DAC ASIO | • |
| DSD Playback Method: | DoP Marker 0x05/0xFA | • |

5. Under DSD Playback Method select DoP Marker 0x05/0x0FA

| | foo_dsd_asio v0.6.5 | × |
|----------------------|------------------------------|---|
| ASIO Driver: | Mytek STEREO192-DSD DAC ASIO | • |
| DSD Playback Method: | DoP Marker 0x05/0xFA | • |

- 6. Click the X to close the window.
- Inside foobar2000 goto File>Preferences>Playback>Output Under Devices choose ASIO: foo_dsd_asio

| | Preferences: Output | ? 🗙 |
|--|---|-----------|
| Components Display Keyboard Shortcuts Media Library Networking Playback DSP Manager OUtnut | Device D5 : Primary Sound Driver Null Output EASIO : ASIO Hammerfall DSP ASIO : Dante Virtual Soundcard ASIO : foo dsd asio ASIO : JPLAY Driver ASIO : JRiver Media Center 19 | _ |

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8. Goto the Tools> SACD. Under ASIO Driver Mode select **DSD.** Please do not change other settings in Tools> SACD window.

| | Preferences: SACD | ? × |
|--|---|-----|
| ← Components ▷ · Display ← Keyboard Shortcuts ▷ · Media Library ← Networking | ASIO Driver Mode: PCM V PCM PCM Volume: DSD | |
| 9. Click APPLY | | |
| | OK Cancel Apply | |
| 10. Click OK | | |
| | OK Cancel Apply | |

11. You are now ready to playback DSD files with **foobar2000** using DoP ASIO and the **Mytek Stereo192-DSD DAC**

USB2.0 ASIO Setup with Native DSD

As of this writing ASIO over USB is the only format that supports direct native DSD playback. The configuration below will allow for 128x DSD playback.

1. Inside foobar2000 go to File>Preferences

| Preferences: Components ? × | | | |
|---|---|--|---|
| ···· Components | Installed components: | Ri | ght-click a component for additional options. |
| ▷ Display | Name | Version | Module |
| Keyboard Shortcuts Media Library Networking Playback Shell Integration Tools Advanced | Album List ASIO support CD Audio Decoder Converter Default User Interface Equalizer File Operations foobar2000 core Online Tagger ReplayGain Scanner Standard DSP Array Standard DSP Array Standard Input Array Super Audio CD Decoder WASAPI output support ZIP/GZIP/RAR Reader | 4.5 2.1.2 3.0 1.5 0.9.5 1.0 2.2 1.3 1.0 0.6.6 3.2.3 1.6 | foo_albumlist foo_out_asio foo_cdda foo_converter foo_ui_std foo_dsp_eq foo_fileops Core foo_freedb2 foo_rgscan foo_dsp_std foo_input_std foo_input_std foo_out_wasapi foo_unpack |
| | Get more components Why are some components grayed ou | <u>tr</u> | Install Copy report Get updates |
| | Reset all Reset page | | OK Cancel Apply |

2. Goto Playback>Output>ASIO



3. Inside the list of ASIO drivers Double Click foo_dsd_asio

| ASIO drivers | |
|-------------------------|------------------------------|
| Abio differs | |
| ACTO LINN OF ALL DCD | MT ACTO Dellas |
| ASIO Hammerrali DSP | MT ASLO Bridge |
| Dante Virtual Soundcard | Mytek 8x192ADDA DIO ASIO |
| foo_dsd_asio | Mytek STEREO192-DSD DAC ASIO |
| JPLAY Driver | ASIO Mytek_FireWire |

4. A small dialogue will appear (it may not come to the front but should be visible from the task bar). Under ASIO Driver select **Mytek STEREO192-DSD DAC ASIO**.

| | foo_dsd_asio v0.6.5 | × |
|----------------------|------------------------------|----------|
| ASIO Driver: | Mytek STEREO192-DSD DAC ASIO | • |
| DSD Playback Method: | ASIO Native | - |

5. Under DSD Playback Method select ASIO Native

| | foo_dsd_asio v0.6.5 | × |
|----------------------|------------------------------|----------|
| ASIO Driver: | Mytek STEREO192-DSD DAC ASIO | • |
| DSD Playback Method: | ASIO Native | _ |

- 6. Click the X to close the window.
- Inside foobar2000 goto File>Preferences>Playback>Output Under Devices choose
 ASIO: foo_dsd_asio

| | Preferences: Output | ? × |
|---|--|-----|
| r Components ▷ · Display | Device | |
| Keyboard Shortcuts ▷ - Media Library Networking | DS : Primary Sound Driver Null Output ASIO : ASIO Hammerfall DSP E ASIO : Dette Victual Soundsard | |
| Playback DSP Mapager | ASIO : Danke wirden Solnideard | |
| Output | ASIO : JRIVER Media Center 19 | |

8. Goto the Tools> SACD. Under ASIO Driver Mode select **DSD.** Please do not change other settings in Tools> SACD window.

| | Preferences: SACD | ? × | |
|---|--|-----|--|
| ···· Components ▷ · Display ···· Keyboard Shortcuts ▷ · Media Library ···· Networking | ASIO Driver Mode: PCM V PCM Volume: DSD | | |
| 9. Click APPLY | | | |
| | OK Cancel Apply | | |
| 10. Click OK | | | |
| | OK Cancel Apply | | |

11. You are now ready to playback Native DSD files with foobar2000 and the Mytek Stereo192-DSD DAC

FireWire ASIO Setup with DoP DSD

1. Inside foobar2000 go to File>Preferences

| | Preferences: Compo | nents | ? × |
|--|---|---|--|
| Components | Installed components: | Ri | ght-click a component for additional options. |
| ▷ Display | Name | Version | Module |
| Collaboration Collaboration Media Library Media Library Networking Playback Shell Integration Tools Advanced | Name Album List ASIO support CD Audio Decoder Converter Default User Interface Equalizer File Operations foobar2000 core Online Tagger ReplayGain Scanner Standard DSP Array Super Audio CD Decoder WASAPI output support ZIP/GZIP/RAR Reader | Version 4.5 2.1.2 3.0 1.5 0.9.5 1.0 2.2 1.3 0.7 2.2 1.3 1.0 0.6.6 3.2.3 1.6 | Module Module foo_albumlist foo_out_asio foo_cdda foo_converter foo_dsp_eq foo_fileops Core foo_freedb2 foo_input_std foo_input_std foo_input_std foo_out_wasapi foo_unpack foo_unpack |
| | Get more components Why are some components grayed out Reset all Reset page | 2 | Install Copy report Get updates OK Cancel Apply |

2. Goto Playback>Output>ASIO



3. Inside the list of ASIO drivers Double Click foo_dsd_asio

| ASIO drivers | | | | |
|-------------------------|------------------------------|--|--|--|
| | | | | |
| ASIO Hammerfall DSP | MT ASIO Bridge | | | |
| Dante Virtual Soundcard | Mytek 8x192ÅDDA DIO ASIO | | | |
| foo_dsd_asio | Mytek STEREO192-DSD DAC ASIO | | | |
| JPLAY Driver | ASIO Mytek_FireWire | | | |

4. A small dialogue will appear (it may not come to the front but should be visible from the task bar). Under ASIO Driver select **Mytek DiceDrv**.

| | foo_dsd_asio v0.6.5 | × |
|----------------------|----------------------|----------|
| ASIO Driver: | MytekDiceDrv | • |
| DSD Playback Method: | DoP Marker 0x05/0xFA | • |

5. Under DSD Playback Method select DoP Marker 0x05/0x0FA

| | foo_dsd_asio v0.6.5 | × |
|----------------------|----------------------|---|
| ASIO Driver: | MytekDiceDrv | • |
| DSD Playback Method: | DoP Marker 0x05/0xFA | • |

- 6. Click the X to close the window.
- Inside foobar2000 goto File>Preferences>Playback>Output Under Devices choose
 ASIO: foo_dsd_asio

| | Preferences: Output | ? × |
|--|--|-----|
| Components Oisplay Keyboard Shortcuts Media Library Networking Playback OsP Manager Output | Device DS : Primary Sound Driver Null Output ASIO : ASIO Hammerfall DSP ASIO : Dante Virtual Soundcard ASIO : foo dsd_asio ASIO : JPLAY Driver ASIO : JRVer Media Center 19 | ~ |

8. Goto the Tools> SACD. Under ASIO Driver Mode select **DSD.** Please do not change other settings in Tools> SACD window.

| | | Preferences: SACD | ? | × |
|----|--|--|---|---|
| | Components > · Display - Keyboard Shortcuts > · Media Library - Networking | ASIO Driver Mode: PCM V PCM Volume: DSD | | |
| 9. | . Click APPLY | | | |
| | | OK Cancel Apply | | |
| 10 | 0. Click OK | | | |
| | | OK Cancel Apply | | |

11. You are now ready to playback DSD files with **foobar2000** using DoP ASIO and the **Mytek Stereo192-DSD DAC**

JRiver Media Center Installation

USB2.0 Wasapi Setup with DoP DSD

- Install the latest version of JRiver Media Center <u>http://www.jriver.com/download.html</u> and ensure that the Mytek Stereo 192-DSD DAC is connected via USB2.0 to the computer with its INPUT set to USB2.
- Inside JRiver Media Center Locate and CLICK the Player Tab and select PLAYBACK OPTIONS at the top of the screen.

| File Edit View | Player Tools Help | |
|----------------|-------------------------|--------------|
| 001 | Play/Pause | Ctrl+P |
| | Stop | Ctrl+S |
| • | Stop After Current File | Ctrl+Shift+S |
| Playing Now | Previous | Ctrl+L |
| Audio | Next | Ctrl+N |
| Images | Skip To | • |
| Video | Seek | • |
| Performer Stor | Volume | • |
| Podcasts | Shuffle | • |
| Playlists | Repeat | • |
| Drives & Devic | Preview Mode | • |
| Services & Plu | Play Last.fm Radio | |
| | Playing Now | · · · · |
| | Zone | • |
| | Audio Path | • |
| | Display Options | • |
| | DSP Studio | |
| | Playback Options | |

3. CLICK the AUDIO Tab



4. Under Audio Device choose USBPAL Out1 L/R (Stereo 192-DSD DAC WDM Audio) [WASAPI]

| | Options | | |
|----------|--|--|--|
| 🛃 Audio | Zone to configure: Player | | |
| 🔯 Images | ▼ Audio Device | | |
| 🔛 Video | USBPAL Out1 L/R (Stereo 192-DSD DAC WDM Audio) [WASAPI] | | |
| | Default Audio Device [Direct Sound] ASIO Hammerfall DSP [ASIO] ASIO Mytek_FireWire [ASIO] Dante Virtual Soundcard [ASIO] JPLAY Driver [ASIO] MT ASIO Bridge [ASIO] Mytek 8x192ADDA DIO [ASIO] Mytek STEREO192-DSD DAC [ASIO] Yamaha Steinberg USB [ASIO] Głośniki (13- Mytek_FireWire Audio) [WASAPI] Głośniki (Realtek High Definition Audio) [WASAPI] Realtek Digital Output (Realtek High Definition Audio) [WASAPI] More | | |

5. Staying inside the Audio Tab CLICK Device Settings

| | Options |
|----------|---|
| ▶ Audio | Zone to configure: Player |
| 🔯 Images | - Audio Device |
| 🔛 Video | ✓ USBPAL Out1 L/R (Stereo 192-DSD DAC WDM Audio) [WASAPI] Device settings |

6. Inside the **Device Settings** Dialog box select (V) box: "Open device for exclusive access". Click OK, to accept the changes.

| USBPAL Out1 L/R (Stereo 192-DSD DAC WDM Audio) [WASAPI] | × |
|--|---|
| Device | |
| Open device for exclusive access | |
| Disable event style (required by older hardware) | |
| Maximize device volume during playback | |
| Play a little silence on DoP stop (removes click with some DACs) | |
| | |

7. Staying inside the Audio Tab CLICK Settings

| | Options |
|----------|--|
| Audio | Zone to configure: Player |
| 🔯 Images | ▼ Audio Device |
| 🚼 Video | USBPAL Out1 L/R (Stereo 192-DSD DAC WDM Audio) [WASAPI] Device settings |
| | ▼ Settings |
| | 🔜 DSP & output format |
| | Bitstreaming: Yes (DSD) |
| | Prebuffering: 6 seconds (recommended) |
| | Play silence at startup for hardware synchronization: None |
| | Play files from memory instead of disk (not zone-specific) |
| | Disable display from turning off (useful for HDMI audio) |

8. Under Settings CLICK the Bitstreaming box and select Custom...

| ▼ Audio Device | |
|---|---------------------------|
| ■ USBPAL Out1 L/R (Stereo 192-DS | D DAC WDM Audio) [WASAPI] |
| Device settings | |
| ▼ Settings | |
| 🔜 DSP & output format | |
| Bitstreaming: Yes (DSD) | |
| None (recommended) | ended) |
| S/PDIF | e synchronization: None |
| HDMI | disk (not zone-specific) |
| Custom | useful for HDMI audio) |

9. Inside the **Bitstreaming Formats** dialog, put an "X" inside the **DSD** box only

| Bitstreaming Formats |
|----------------------------|
| Dolby Digital (AC3) |
| Dolby Digital Plus (E-AC3) |
| Dolby TrueHD |
| |
| DTS-HD |
| ☑ DSD |
| OK Cancel |

10. CLICK OK inside the Bitstreaming Formats dialog and OK in the Options dialog



11. You are now configured to stream DSD files directly to the MYTEK Stereo192-DSDDAC , (Once DSD streaming is active the front panel of the MYTEK will read DSD)

USB2.0 ASIO Setup with Native DSD

- 1. Install the latest version of JRiver Media Center http://www.jriver.com/download.html and ensure that the Mytek Stereo 192-DSD DAC is connected via USB2.0 to the computer with its INPUT set to USB2.
- Inside JRiver Media Center Locate and CLICK the Player tab and select PLAYBACK OPTIONS at the top of the screen.

| File Edit View | Player Tools Help | |
|----------------|-------------------------|--------------|
| OO | Play/Pause | Ctrl+P |
| | Stop | Ctrl+S |
| • | Stop After Current File | Ctrl+Shift+S |
| Playing Now | Previous | Ctrl+L |
| Audio | Next | Ctrl+N |
| Images | Skip To | • |
| Video | Seek | • |
| Performer Stor | Volume | • |
| Podcasts | Shuffle | • |
| Playlists | Repeat | • |
| Drives & Devic | Preview Mode | • |
| Services & Plu | Play Last.fm Radio | |
| | Playing Now | • |
| | Zone | • |
| | Audio Path | • |
| | Display Options | • |
| | DSP Studio | |
| | Playback Options | |

3. CLICK the AUDIO Tab

| Audio | |
|----------|--|
| 🔯 Images | |
| 🔛 Video | |
| | |
| | |
| | |

4. Under Audio Device choose Mytek STEREO192-DSD DAC [ASIO]

| | Options |
|----------|--|
| D Audio | Zone to configure: Player |
| 🔯 Images | ▼ Audio Device |
| 🚼 Video | ✓ Mytek STEREO192-DSD DAC [ASIO] ■ Device settings |

5. Staying inside the Audio Tab CLICK Settings

| | Options |
|------------------|--|
| Audio | Zone to configure: Player |
| 🔯 Images 👯 Video | Audio Device Mytek STERE0192-DSD DAC [ASIO] Device settings |
| | Settings DSP & output format |
| | Bitstreaming: Yes (DSD over PCM (DoP)) Prebuffering: 6 seconds (recommended) |
| | Play silence at startup for hardware synchronization: None Play files from memory instead of disk (not zone-specific) Disable display from turning off (useful for HDMI audio) |

6. Under Settings CLICK the Bitstreaming box and select Custom...

| Audio | ▼ Audio Device | | |
|----------|--|--|--|
| 🛅 Images | Mytek STEREO192-DSD DAC [ASIO] | | |
| 🚼 Video | Device settings | | |
| | ▼ Settings | | |
| | 🔜 DSP & output format | | |
| | ➡ Bitstreaming: Yes (DSD over PCM (DoP)) | | |
| | None (recommended) | | |
| | S/PDIF e synchronization: None | | |
| | HDMI disk (not zone-specific) | | |
| | □ ✓ Custom seful for HDMI audio) | | |

7. Inside the **Bitstreaming Formats** dialog, put an "X" inside the **DSD** box only. Click OK.

| Bitstreaming Formats |
|----------------------------|
| Dolby Digital (AC3) |
| Dolby Digital Plus (E-AC3) |
| Dolby TrueHD |
| DTS |
| DTS-HD |
| ☑ DSD |
| OK Cancel |

8. CLICK OK inside the Bitstreaming Formats dialog and OK in the Options dialog

| ОК | Cancel | Help |
|----|--------|------|

9. You are now configured to stream DSD files Natively to the MYTEK Stereo192-DSD
 DAC , (Once DSD streaming is active the front panel of the MYTEK will read DSD)

FireWire Wasapi Setup with DoP DSD

- Install the latest version of JRiver Media Center <u>http://www.jriver.com/download.html</u> and ensure that the Mytek Stereo 192-DSD DAC is connected via FireWire to the computer with its INPUT set to FW.
- Inside JRiver Media Center Locate and CLICK the Player tab and select PLAYBACK OPTIONS at the top of the screen.

| File Edit View | Player Tools Help | |
|----------------|-------------------------|--------------|
| 001 | Play/Pause | Ctrl+P |
| | Stop | Ctrl+S |
| • | Stop After Current File | Ctrl+Shift+S |
| Playing Now | Previous | Ctrl+L |
| Audio | Next | Ctrl+N |
| Images | Skip To | • |
| Video | Seek | • |
| Performer Stor | Volume | • |
| Podcasts | Shuffle | • |
| Playlists | Repeat | • |
| Drives & Devic | Preview Mode | • |
| Services & Plu | Play Last.fm Radio | |
| | Playing Now | + |
| | Zone | |
| | Audio Path | • |
| | Display Options | • |
| | DSP Studio | |
| | Playback Options | |

3. CLICK the AUDIO Tab

| _ | _ |
|----------|---|
| 🔈 Audio | |
| 🔯 Images | |
| 🔛 Video | |
| | |
| | |
| | |

4. Under Audio Device choose Speakers (Mytek_FireWire Audio) [WASAPI] (This may have a name preceding it *i.e. Speakers*)

| | Options |
|-------------|---|
| Audio | Zone to configure: Player |
| 🔯 Images | ▼ Audio Device |
| Video Video | Speakers (13- Mytek_FireWire Audio) [WASAPI] Default Audio Device [Direct Sound] Set ASIO Hammerfall DSP [ASIO] ASIO Mytek_FireWire [ASIO] Dante Virtual Soundcard [ASIO] JPLAY Driver [ASIO] MT ASIO Bridge [ASIO] Mytek &x192ADDA DIO [ASIO] Mytek STEREO192-DSD DAC [ASIO] Yamaha Steinberg USB [ASIO] Tra foo_dsd_asio [ASIO] |
| | ▼ ✓ Speakers (13- Mytek_FireWire Audio) [WASAPI] |

5. Staying inside the Audio Tab CLICK Device Settings

| Audio Device Speakers (13- Mytek_FireWire Audio) [WASAPI] Device settings |
|---|
| Speakers (13- Mytek_FireWire Audio) [WASAPI] |
| Device |
| Open device for exclusive access |
| Disable event style (required by older hardware) |
| Maximize device volume during playback |
| Play a little silence on DoP stop (removes click with some DACs) |

6. Inside the **Device Settings** Dialog box select (V) box: "Open device for exclusive access". Click OK, to accept the changes.

| Device |
|--|
| Open device for exclusive access |
| Disable event style (required by older hardware) |
| Maximize device volume during playback |
| □ Play a little silence on DoP stop (removes click with some DACs) |
| |

7. Staying inside the Audio Tab CLICK Settings

| | Options |
|------------------|---|
| Audio | Zone to configure: Player |
| 🔯 Images 👯 Video | Audio Device Speakers (13- Mytek_FireWire Audio) [WASAPI] Device settings |
| | Settings DSP & output format Bitstreaming: Yes (DSD) Prebuffering: 6 seconds (recommended) Play silence at startup for hardware synchronization: None Play files from memory instead of disk (not zone-specific) Disable display from turning off (useful for HDMI audio) |

8. Under Settings CLICK the Bitstreaming box and select Custom...

| | | Options |
|----------|-----------------------------|--------------------------|
| 🔈 Audio | Zone to configure: Player | |
| 🔯 Images | ▼ Audio Device | |
| 👫 Video | Speakers (13- Mytek_FireWir | re Audio) [WASAPI] |
| | ▼ Settings | |
| | DSP & output format | |
| | Bitstreaming: Yes (DSD) | |
| | None (recommended) | ended) |
| | S/PDIF | e synchronization: None |
| | HDMI | disk (not zone-specific) |
| | Custom | useful for HDMI audio) |

9. Inside the **Bitstreaming Formats** dialog, put an "X" inside the **DSD** box only

| Bitstreaming Formats |
|----------------------------|
| Dolby Digital (AC3) |
| Dolby Digital Plus (E-AC3) |
| Dolby TrueHD |
| DTS |
| DTS-HD |
| ☑ DSD |
| OK Cancel |

10. CLICK OK inside the Bitstreaming Formats dialog and OK in the Options dialog

| ОК | Cancel | Help |
|----|--------|------|

11. You are now configured to stream DSD files directly to the MYTEK Stereo192-DSDDAC , (Once DSD streaming is active the front panel of the MYTEK will read DSD)

USB2.0 ASIO Setup with DoP DSD

- Install the latest version of JRiver Media Center <u>http://www.jriver.com/download.html</u> and ensure that the Mytek Stereo 192-DSD DAC is connected via USB2.0 to the computer with its INPUT set to USB2.
- Inside JRiver Media Center Locate and CLICK the Player tab and select PLAYBACK OPTIONS at the top of the screen.

| File Edit View | Player Tools Help | |
|----------------|-------------------------|--------------|
| OO | Play/Pause | Ctrl+P |
| | Stop | Ctrl+S |
| • | Stop After Current File | Ctrl+Shift+S |
| Playing Now | Previous | Ctrl+L |
| Audio | Next | Ctrl+N |
| Images | Skip To | • |
| Video | Seek | • |
| Performer Stor | Volume | Þ |
| Podcasts | Shuffle | • |
| Playlists | Repeat | • |
| Drives & Devic | Preview Mode | ۱. |
| Services & Plu | Play Last.fm Radio | |
| | Playing Now | • |
| | Zone | • |
| | Audio Path | • |
| | Display Options | • |
| | DSP Studio | |
| | Playback Options | |

3. CLICK the AUDIO Tab



4. Under Audio Device choose Mytek STEREO192-DSD DAC [ASIO]

| | Options |
|-----------------------|---|
| Audio Contrages Video | Zone to configure: Player Audio Device Mytek STEREO192-DSD DAC [ASIO] Device settings |

5. Staying inside the Audio Tab CLICK Device Settings



6. Inside the **Device Settings** Dialog box in **Tools** TAB select (V) box: "DSD bitstream in DoP format". Click OK, to accept the changes.

| Tools Open Driver Control Panel | |
|--|----------------------|
| Device uses only most significant DSD bitstream in DoP format | 24-bits (Lynx, etc.) |
| | OK Cancel |

7. Go to Audio Tab CLICK Settings

| | Options |
|------------------|--|
| Audio | Zone to configure: Player |
| 🗿 Images 👯 Video | ▼ Audio Device ▼ Mytek STEREO192-DSD DAC [ASIO] ■ Device settings |
| | Settings DSP & output format Bitstreaming: Yes (DSD over PCM (DoP)) Prebuffering: 6 seconds (recommended) Play silence at startup for hardware synchronization: None Play files from memory instead of disk (not zone-specific) Disable display from turning off (useful for HDMI audio) |

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8. Under Settings CLICK the Bitstreaming box and select Custom...

| ▼ Audio Device | |
|-------------------------------------|--------------------------|
| Mytek STEREO192-DSD DAC [A: | 510] |
| 🔜 Device settings | |
| ▼ Settings | |
| 🔜 DSP & output format | |
| 🖉 💌 Bitstreaming: Yes (DSD over PC) | M (DoP)) |
| None (recommended) | ended) |
| S/PDIF | e synchronization: None |
| HDMI | disk (not zone-specific) |
| Custom | seful for HDMI audio) |

9. Inside the **Bitstreaming Formats** dialog, put an "X" inside the **DSD** box only. Click OK.

| Bitstreaming Formats |
|----------------------------|
| Dolby Digital (AC3) |
| Dolby Digital Plus (E-AC3) |
| Dolby TrueHD |
| 🗆 DTS |
| DTS-HD |
| 🗹 DSD |
| OK Cancel |

10. CLICK OK inside the Bitstreaming Formats dialog and OK in the Options dialog

| ОК | Cancel | Help |
|----|--------|------|

11. You are now configured to stream DSD files Natively to the MYTEK Stereo192-DSDDAC , (Once DSD streaming is active the front panel of the MYTEK will read DSD)

FireWire ASIO Setup with DoP DSD

- Install the latest version of JRiver Media Center <u>http://www.jriver.com/download.html</u> and ensure that the Mytek Stereo 192-DSD DAC is connected via FireWire to the computer with its INPUT set to Fire.
- Inside JRiver Media Center Locate and CLICK the Player tab and select PLAYBACK OPTIONS at the top of the screen.

| File Edit View | Player Tools Help | | | |
|-----------------|-------------------------|--------------|--|--|
| 001 | Play/Pause | Ctrl+P | | |
| | Stop | Ctrl+S | | |
| | Stop After Current File | Ctrl+Shift+S | | |
| Playing Now | Previous | Ctrl+L | | |
| Audio | Next | Ctrl+N | | |
| Images | Skip To | • | | |
| Video | Seek | • | | |
| Performer Stor | Volume | • | | |
| Podcasts | Shuffle | • | | |
| Playlists | Repeat | • | | |
| Drives & Devic | Preview Mode | | | |
| Services & Plug | Play Last.fm Radio | | | |
| | Playing Now | · · · · | | |
| | Zone | • | | |
| | Audio Path | • | | |
| | Display Options | • | | |
| | DSP Studio | | | |
| | Playback Options | | | |

3. CLICK the AUDIO Tab



4. Under Audio Device choose ASIO Mytek_FireWire [ASIO]

| | | Options |
|--------------|---|---------|
| Audio | Zone to configure: Player | |
| 🔯 Images | ▼ Audio Device | |
| 🚼 Video | ASIO Mytek_FireWire [ASIO] Device settings | |

5. Staying inside the Audio Tab CLICK Device Settings



6. Inside the **Device Settings** Dialog box in **Tools** TAB select **(V)** box: "DSD bitstream in DoP format". Click OK, to accept the changes.



7. Go to Audio Tab and CLICK Settings



8. Under Settings CLICK the Bitstreaming box and select Custom...

| ▼ Au | dio Device | |
|-------|----------------------------|--------------------------|
| ~ | ASIO Mytek FireWire [ASIO] | |
| | Device cettings | |
| | Device settings | |
| ▼ Set | tings | |
| | DSP & output format | |
| ~ | Bitstreaming: Yes (DSD) | |
| * | None (recommended) | ended) |
| ~ | HDMI | e synchronization: None |
| | S/PDIF | disk (not zone-specific) |
| | ✓DSD | (seful for HDMI audio) |
| ▼ Tra | Custom | |

9. nside the **Bitstreaming Formats** dialog, put an "X" inside the **DSD** box only. Click OK.

| Bitstreaming Formats |
|----------------------------|
| Dolby Digital (AC3) |
| Dolby Digital Plus (E-AC3) |
| Dolby TrueHD |
| 🗆 DTS |
| DTS-HD |
| ☑ DSD |
| OK Cancel |

10. CLICK OK inside the Bitstreaming Formats dialog and OK in the Options dialog



11. You are now configured to stream DSD files Natively to the MYTEK Stereo192-DSDDAC , (Once DSD streaming is active the front panel of the MYTEK will read DSD)

JRiver Multichannel Setup with 3x Stereo192-DSD DACs

Jriver on Win can play both sacd.iso as well as multichannel DSD and PCM files.

- 1. Please make sure all 3x Mytek Stereo192-DSD DACs are loaded with newest software;
 - a. Firmware: 1.7.5 or later.Menu Firmware, press a knob
 - b. USB drivers: 1.34.10 or later.
 Check under Driver Info Tab in STEREO192-DSD Control Panel (located in System Tray, PAL icon).

You can download the newest software from http://mytekdigital.com/hifi

- 2. Connect all 3 DACs via USB 2.0 to USB hub.
- 3. Connect all 3 DACs via 2x BNC WordClock cables:
 - a. 1st DAC's WCK OUT into 2nd DAC's WCK IN
 - **b.** 2nd DAC's **WCK OUT** into 3rd DAC's **WCK IN**
- Set the 1st DAC to Internal Sync so it is the Clock Master. Menu - Input - USB2 - Int Sync.

 Set the 2nd and 3rd (!) DAC to WordClock Sync so they are Slaves to the 1st DAC: Menu - Input - USB2 - Wrd CLK



6. Please make sure you have followed the <u>USB2.0 ASIO Setup with Native DSD</u> chapter to set JRiver for **Multichannel Playback**.

NOTE:

One driver should see all 3 DACs. Please check under **Devices** Tab in **STEREO192-DSD Control Panel** (located in System Tray, **PAL** icon).

| FAL | STEREO192-DSD DAC Con | itrol Panel 🛛 🗕 🗆 🗙 |
|---|--|---|
| File Help Sample Rate Buffer Settings Devices Device1 Device2 ASIO IN Channe ASIO OUT Chan Status Info Driver Info License Info | Device Info Vendor ID: 0x250E Produc Serial: 000000000046565 This device is selected for str Driver-integrated Mixer Mute bypass ✔ Volume bypass | t ID: 0x000E eaming. Playback Mixer |
| Ready Stream | ing state: Running | Current sampling rate: 44.100 kHz |



Pure Music Installation

Mytek recommends the use of Firewire, as it is a true streaming format. If you do not have Firewire please continue to USB2.0 Setup.

FireWire (Core Audio) Setup with DoP DSD

1. Download the Latest Version of **Pure Music** from the Channel D website at: <u>http://www.channld.com/download.html</u>





4. Within the same folder where the **Pure Music** .**ZIP** file was located, locate and DOUBLE CLICK the Pure Music .DMG to extract the application.



5. The Channel D Software License Agreement will appear CLICK Agree.

| If you agree with the terms of this license, press "Agree" to install the software. If you do not agree, press "Disagree". CHANNEL D SOFTWARE LICENSING AGREEMENT This is a legal agreement (contract) between you (the "Licensee") and Channel D | Pure Music 1.89g R3.dmg | | |
|--|--|--|--|
| Corporation ("Channel D") regarding your installation and use of the enclosed Application Software and accompanying printed or file based documentation. The Software and documentation are protected by United States and international copyright laws. This agreement does not grant you any intellectual property rights in or to this software. The code and algorithms of this software represent valuable trade secrets of Channel D and its suppliers. You agree not to make or attempt to make alterations, remove any copyright or identification notices, reverse engineer, modify, adapt, decompile, disassemble, examine or attempt to discover the internal structure, source code or algorithms of this software. RESTRICTIONS GOVERNING USE OF SINGLE USER LICENSE / ACTIVATION CODE A purchased Single User License / Activation Code for the Software allows using the Software on more than one computer, provided: Print Save Disagree Agree | If you agree with the terms of this license, press "Agree" to install the software. If you do not agree, press "Disagree". | CHANNEL D SOFTWARE LICENSING AGREEMENT This is a legal agreement (contract) between you (the "Licensee") and Channel D Corporation ("Channel D") regarding your installation and use of the enclosed Application Software and accompanying printed or file based documentation. The Software and documentation are protected by United States and international copyright laws. This agreement does not grant you any intellectual property rights in or to this software. The code and algorithms of this software represent valuable trade secrets of Channel D and its suppliers. You agree not to make or attempt to make alterations, remove any copyright or identification notices, reverse engineer, modify, adapt, decompile, disassemble, examine or attempt to discover the internal structure, source code or algorithms of this software. RESTRICTIONS GOVERNING USE OF SINGLE USER LICENSE / ACTIVATION CODE A purchased Single User License / Activation Code for the Software allows using the Software on more than one computer, provided: Print Save Disagree Agree | |

6. The Pure Music application will show up on screen. Follow the directions within the window by Dragging the Pure Music to the Applications Folder



7. DOUBLE CLICK the Pure Music icon to launch Pure Music



8. If a warning dialog appears asking "Are you sure you want to open it?" CLICK Open



9. When Pure Music opens it will launch iTunes as well.



10. In the Pure Music menu bar, Pure Music tab Select Audio Setup...

| É | Pure Music | Edit | Music Server | Metering |
|----------|--------------|---------|------------------|----------|
| | About Pure | Music | | |
| | Preferences | i | | ж, |
| • | Audio Setu | p | | ΰжА |
| | Add FLAC o | or DSD | Files | ЖF |
| • • • | Audio File S | Sample | Rate Converter | |
| * | Convert Au | dio Fil | es to Apple Loss | sless |
| | Services | | | • |
| | Hide Pure M | lusic | | |
| | Hide Other | s | | τæΗ |
| | Show All | | | |
| | Quit Pure M | lusic | | жQ |

11. Within the Audio Setup dialog go to Device Selection > Output > Output Device and select Mytek_Firewire.

| Output Input and Playthrough Special Options Built-in Output Play, Preallocate and Supported De HDMI Input and Playthrough Play, Preallocate and Supported De Mytek_FireWire Input and Playthrough Input and Playthrough Mytek_FireWire Input and Playthrough Input and Supported De Mytek Digital STEREO192-DSD DAC Target: 192000 Allow Device Hardware Control If Supported: Volume Mute Enable Exclusive Access ("Hog" Mode) Native Integer Format Supported: DSD Preferred Equivalent PCM Playback Rate (Maximum): |
|---|
| Built-in Output HDMI Play, Preallocate and Supported De ✓ Mytek_FireWire ‡ Mytek Digital STEREO192-DSD DAC Target: 192000 Allow Device Hardware Control If Supported: Volume Mute Enable Exclusive Access ("Hog" Mode) DSD Preferred Equivalent PCM Playback Rate (Maximum): 176.4 kHz |
| ✓ Mytek_FireWire ↔ Mytek Digital STEREO192-DSD DAC ✓ Target: 192000 Allow Device Hardware Control If Supported: Volume Mute Enable Exclusive Access ("Hog" Mode) Native Integer Format Support DSD Preferred Equivalent PCM Playback Rate (Maximum): 176.4 kHz + |
| Mytek Digital STEREO192–DSD DAC Target: 192000 Allow Device Hardware Control If Supported: Volume Mute Enable Exclusive Access ("Hog" Mode) Native Integer Format Suppor DSD Preferred Equivalent PCM Playback Rate (Maximum): 176.4 kHz ‡ |
| Allow Device Hardware Control If Supported: Volume Mute Enable Exclusive Access ("Hog" Mode) Native Integer Format Suppor DSD Preferred Equivalent PCM Playback Rate (Maximum): 176.4 kHz |
| Enable Exclusive Access ("Hog" Mode) Native Integer Format Support DSD Preferred Equivalent PCM Playback Rate (Maximum): 176.4 kHz + |
| DSD Preferred Equivalent PCM Playback Rate (Maximum): 176.4 kHz 🛟 |
| |
| The output device selected in Audio MIDI Setup cannot be used with Hog mode. |

12. CLICK the checkbox next to Enable Exclusive Access ("Hog" Mode)

| Mytek_FireWire | \$ | |
|--|-------|-----|
| Current: Mytek_FireWire | | |
| Allow Device Hardware Control If Supp | orted | : |
| Search and the Exclusive Access ("Hog" Mod | de) 🗌 |) N |

13. CLICK "Click to Apply Changes (Application Will Relaunch)

| Output Input and Playth | rough Special Options |
|---|---|
| Output Device Integer requires M | emory Play. Preallocate and Supported Devic |
| Mytek FireWire | |
| Current: Mytek_FireWire | Target: 192000 |
| Allow Device Hardware Control If S | upported: 🗌 Volume 🗌 Mute |
| 🗹 Enable Exclusive Access ("Hog" | Mode) 🗌 Native Integer Format Support |
| DSD Preferred Equivalent PCM Playback F | Rate (Maximum): 176.4 kHz 🛟 |
| | |

14. Once Pure Music relaunches go back to Pure Music menu bar, Pure Music tab, SelectAudio Setup and CLICK the "Special Options"



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16. CLICK **"Copy Current Output Device Name**" this will make the **Mytek_Firewire** the Default DSD playback device.

| Output Ir | nput and Playthroug | h Special Options |
|--|--|--|
| Special Options | Read Description i | in User Guide Before Changing Setting |
| MOTU Traveler Seconda | ary Output Streams | |
| Limit Rate: 384 kHz | : | |
| DSD Setup CAUTION | I - Read Description in U Mytek_FireWire Copy Currer | Jser's Guide Before Changing Settings! nt Output Device Name |
| | Press the Click to App | ly Changes Button to Finalize Device Flag: O AAAA () 05FA |
| The output device sele Current Device and Tar | cted in Audio MIDI Setup rget sample rate ar | p cannot be used with Hog mode. re only updated at launch tim |

17. Staying within the Audio Setup > Device Selection > **Special Options** window Set the Flag: to 05FA.

Press the Click to Apply Changes Button to Finalize Device Flag: 🔿 AAAA 💿 05FA 18. CLICK "Click to Apply Changes" (Application Will Relaunch)

| Output Input and Playthrough Special Options Output Device Integer requires Memory Play, Preallocate and Supported Mytek_FireWire ‡ 192 kHz Current: Mytek_FireWire Target: 192000 | |
|--|--------------|
| Output Device Integer requires Memory Play, Preallocate and Supported Mytek_FireWire 192 kHz Current: Mytek_FireWire Target: 192000 | |
| Mytek_FireWire ‡ 192 kHz Current: Mytek_FireWire Target: 192000 | Device |
| Current: Mytek_FireWire Target: 192000 | ÷ |
| | 0 |
| Allow Device Hardware Control If Supported: Volume Mu | te |
| Section 2017 Contract | port |
| DSD Preferred Equivalent PCM Playback Rate (Maximum): 176.4 kHz 🛟 | |
| The output device selected in Audio MIDI Setup cannot be used with Hog mode Current Device and Target sample rate are only updated at launch | e. n time |
| The output device selected in Audio MIDI Setup cannot be used with Hog mode Current Device and Target sample rate are only updated at launch | a. 1 tim |

19. This completes Basic setup for Pure Music and Mytek Stereo192-DSD DAC,

USB2.0 (Core Audio) Setup with DoP DSD

1. Download the Latest Version of **Pure Music** from the Channel D website at : <u>http://www.channld.com/download.html</u>



2. Locate and DOUBLE CLICK the **Pure Music .ZIP** file, this will extract the .DMG file the application is located. Typically the file will be found in the Downloads Folder under your user name.



3. Within the same folder where the **Pure Music** .**ZIP** file was located, locate and DOUBLE CLICK the **Pure Music** .**DMG** to extract the application.



4. The Channel D Software License Agreement will appear CLICK Agree.

| | Pure Music 1.89g R3.dmg |
|--|--|
| If you agree with the terms of this license, press "Agree" to install the software. If you do not agree, press "Disagree". | CHANNEL D SOFTWARE LICENSING AGREEMENT This is a legal agreement (contract) between you (the "Licensee") and Channel D Corporation ("Channel D") regarding your installation and use of the enclosed Application Software and accompanying printed or file based documentation. The Software and documentation are protected by United States and international copyright laws. This agreement does not grant you any intellectual property rights in or to this software. The code and algorithms of this software represent valuable trade secrets of Channel D and its suppliers. You agree not to make or attempt to make alterations, remove any copyright or identification notices, reverse engineer, modify, adapt, decompile, disassemble, examine or attempt to discover the internal structure, source code or algorithms of this software. RESTRICTIONS GOVERNING USE OF SINGLE USER LICENSE / ACTIVATION CODE A purchased Single User License / Activation Code for the Software allows using the Software on more than one computer, provided: |
| | |

5. The Pure Music application will show up on screen. Follow the directions within the window by **Dragging the Pure Music to the Applications Folder**



6. DOUBLE CLICK the Pure Music icon to launch Pure Music



7. If a warning dialog appears asking "Are you sure you want to open it?" CLICK **Open**



8. When Pure Music opens it will launch iTunes as well.



9. In the Pure Music menu bar, Pure Music tab Select Audio Setup...



10. Within the Audio Setup dialog go to Device Selection > Output > **Output Device** and select **Mytek Digital Stereo192-DSD DAC**.

| Select Device From App | lication | Strict Device Validatio |
|--|---|--|
| Output In | put and Playthrough S | pecial Options |
| Output Device Ir | nteger requires Memory Play, P | reallocate and Supported Device |
| Mytek Digital STERE | 0192-DSD DAC 💠 | 192 kHz ‡ |
| Current: Mytek Digita | I STEREO192-DSD DAC | Target: 192000 |
| Allow Device Hardwa | re Control If Supported: | 🗹 Volume 🗌 Mute |
| Senable Exclusive | Access ("Hog" Mode) 🗌 🛚 | lative Integer Format Support |
| DSD Preferred Equivale | nt PCM Playback Rate (Maximu | m): 176.4 kHz 🛟 |
| | | |
| The output device select Current Device and Tar | tted in Audio MIDI Setup canno get sample rate are onl | it be used with Hog mode. y updated at launch time. |

11. CLICK the checkbox next to Enable Exclusive Access ("Hog" Mode)



12. CLICK "Click to Apply Changes (Application Will Relaunch)

| Select Device From A | | |
|---|---|---|
| | Application | Strict Device Validatio |
| Output | Input and Playthroug | h Special Options |
| Output Davies | | |
| Output Device | Integer requires Memory | Play, Preallocate and Supported Device |
| Mytek Digital ST | EREO192-DSD DAC | \$ 192 kHz \$ |
| Current: Mytek Di | igital STEREO192–DSD I | DAC Target: 192000 |
| Allow Device Hard | dware Control If Suppor | rted: 🗹 Volume 🗌 Mute |
| Enable Exclusion | ive Access ("Hog" Mode | Native Integer Format Support |
| DSD Preferred Equi | ivalent PCM Playback Rate (M | laximum): 176.4 kHz 🗧 |
| | | |
| | | |
| | | |
| | | |
| | | |
| The output device | selected in Audio MIDI Setup | cannot be used with Hog mode. |
| The output device Current Device and | selected in Audio MIDI Setup Target sample rate ar | cannot be used with Hog mode. Te only updated at launch time |

13. Once Pure Music relaunches go back to Pure Music menu bar, Pure Music tab, SelectAudio Setup and CLICK the "Special Options"

| C | Output | Input and Playthrough | Special Options | _ |
|---|--------|-----------------------|-----------------|---|
| _ | | | | |

14. CLICK the checkbox next to DSD Streaming Device:

| DSD Setup | CAUTION |
|-----------------|---------|
| 🗹 DSD Streaming | Device: |

15. CLICK "Copy Current Output Device Name" this will make the Mytek Stereo192-DSD DAC the Default DSD playback device.

| Salact Davice From App | lication | | Strict Davice Validati |
|-------------------------|-----------------------|--------------------|--------------------------|
| Select Device From App | incation | | |
| Output In | put and Playthro | ugh Specia | I Options |
| Special Options | Read Descriptio | on in User Guide I | Before Changing Settings |
| MOTU Traveler Seconda | iry Output Streams | | |
| | | | |
| Limit Rate: 384 kHz | : | | |
| DSD Setup CAUTION | - Read Description in | n User's Guide Be | fore Changing Settings! |
| DSD Streaming Device: | Mytek_FireWire | | |
| | Copy Curr | rent Output D | evice Name |
| | Press the Click to A | pply Changes But | tton to Finalize Device |
| | | Flag | : 🔿 AAAA 💿 05FA |
| | | | |
| The output device selec | cted in Audio MIDI Se | tup cannot be us | ed with Hog mode. |
| Current Device and Tar | get sample rate | are only upd | lated at launch time |
| | c (Application Wil | Polounch) | Speci |

16. Staying within the Audio Setup > Device Selection > **Special Options** window Set the Flag: to **05FA**.



17. CLICK "Click to Apply Changes (Application Will Relaunch)"

| Select Device From Applica | ation | Strict Device Valida |
|--|--|---|
| Output Inpu | t and Playthrough | Special Options |
| Output Device Integ | jer requires Memory Play | r, Preallocate and Supported Devi |
| Mytek Digital STEREO1 | 92-DSD DAC 💠 | 192 kHz ‡ |
| Current: Mytek Digital S | TEREO192-DSD DAG | C Target: 192000 |
| Allow Device Hardware | Control If Supported | d: 🗹 Volume 🗌 Mute |
| 🗹 Enable Exclusive Acc | cess ("Hog" Mode) | Native Integer Format Support |
| DSD Preferred Equivalent F | CM Playback Rate (Maxi | mum): 176.4 kHz 🛟 |
| The output device selected Current Device and Targe | in Audio MIDI Setup car t sample rate are o | nnot be used with Hog mode. Only updated at launch tim |
| | | |

18. This completes Basic setup for Pure Music and Mytek Stereo192-DSD DAC.

Audirvana Plus Installation

Mytek recommends the use of Firewire, as it is a true streaming format. If you do not have Firewire please continue to USB2.0 Setup.

FireWire (Core Audio) Setup with DoP DSD

 Ensure the Mytek Stereo192-DSD DAC input is set to FireWire and you have downloaded the latest version of Audirvana Plus by visiting <u>http://audirvana.com/?</u> page_id=112

| Download | d |
|----------|---|

 Locate and DOUBLE CLICK the Audirvana Plus .DMG (disk image) file, this will extract the Audirvana Application. Typically the .DMG will be found in the Downloads Folder under your user name.



3. CLICK Agree to Accept the Audirvana Plus License Agreement

| 1.5.12.dmg |
|---|
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| |

4. Follow the directions within the window by Dragging the Audirvana Plus to the Applications Folder



5. Goto the Applications Folder and Double CLICK the Audirvana Plus application





6. If a Warning window appears CLICK Open



7. Inside Audirvana Plus Menu Bar open Preferences. Audirvana Plus > Preferences

| Audirvana Plus | File | Edit |
|--|----------|-----------|
| About Audirvan | a Plus | 5 |
| Debug Info | | |
| Preferences Check for Updat Load License Fil | tes e | Ж, |
| Services | | ► |
| iTunes Integrate | ed Mo | de |
| Hide Audirvana Hide Others Show All | Plus | Hж Hж∵ |
| Quit Audirvana | Plus | жQ |

8. Inside the Audirvana Preferences CLICK Audio System



9. Change the Preferred Audio Device to Mytek_FireWire

| Preferred A Built– | udio Device in Output | Change |
|-----------------------|---|-----------|
| Selec | t the new preferred device | hanner |
| 44.1 48 | ✓ Built-in Output Built-in Line Output Built-in Digital Output Mytek_FireWire Pro Tools Aggregate I/O | DSD64 DSL |

- 10. Under Active Audio Device Change Native DSD Capability to "Automatic Detection".
- **11.** Please make sure that **"Use a stereo only"** box is unticked.

| Active Audio | o Devie | e | | | | | |
|--------------|---------|----------|--------|-----------|---------|---------------|--------|
| Mytek_ | FireWi | re | | | | | |
| 44.1 | 48 | 88.2 | 96 | 176.4 | 192 | DSD64 | DSD128 |
| 4 chan | nels u | sed in 3 | 3.1 | (| Use as | stereo only | |
| | | Native D | SD Cap | ability (| Automat | tic Detection | \$ |
| | | | | | | | |

12. Under Low Level Playback Options Enable Exclusive Access mode and Integer Mode

| Low level playback options | |
|----------------------------|--------------------------------------|
| 🗹 Exclusive access mode | |
| 🗹 Direct Mode | 🗹 Integer mode (if avail. on device) |
| | Integer Mode : Mode 1 🛟 |

13. Under "Maximum memory allocated for tracks pre-load" set to 2048 or higher

| Maximum memory allocated for tracks pre | -load | |
|---|---------|---------|
| Q | | 2048 MB |
| 50mn @44.1kHz | 11mn @1 | 92kHz |

14. Close **Audirvana Preferences** and begin playing **DSD** and high resolution files directly from the computer!



USB2.0 (Core Audio) Setup with DoP DSD

 Ensure the Mytek Stereo192-DSD DAC input is set to USB2.0 and you have downloaded the latest version of Audirvana Plus by visiting <u>http://audirvana.com/?</u> page_id=112



 Locate and DOUBLE CLICK the Audirvana Plus .DMG (disk image) file, this will extract the Audirvana Application. Typically the .DMG will be found in the Downloads Folder under your user name.



3. CLICK Agree to Accept the Audirvana Plus License Agreement

| | AudirvanaPlus_1.3.5.dmg |
|---|--|
| IMPORTANT – Read this License Agreement carefully before clicking on the "Agree" button. By clicking on the "Agree" button, you agree to be bound by the terms of the License Agreement. | AudirvanaPlus_1.3.5.dmg English \$ ENGLISH VERSION AUDIRVANA PLUS END USER LICENSE AGREEMENT This copy of Audirvana Plus ("THE SOFTWARE PRODUCT") and accompanying documentation is licensed and not sold. THE SOFTWARE PRODUCT is protected by copyright laws and treaties, as well as laws and treaties related to other forms of intellectual property. Audirvana Société en Commandite Simple à Capital Variable or its subsidiaries, affiliates, and suppliers (collectively "AUDIRVANA") own intellectual property rights in THE SOFTWARE PRODUCT. The Licensee's ("you" or "your") license to download, use, copy, or change THE SOFTWARE PRODUCT is subject to the rights and to all the terms and conditions of this End User License Agreement ("Agreement"). 1. Acceptance YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT BY SELECTING THE "ACCEPT" OPTION AND |
| | YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT BY SELECTING THE "ACCEPT" OPTION AND DOWNLOADING THE SOFTWARE PRODUCT OR BY INSTALLING, USING, OR COPYING THE SOFTWARE PRODUCT. YOU MUST AGREE TO ALL OF THE TERMS OF THIS AGREEMENT BEFORE YOU |
| | Print Save Disagree Agree |

4. Follow the directions within the window by Dragging the Audirvana Plus to the Applications Folder



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6. Goto the Applications Folder and Double CLICK the Audirvana Plus application



7. If a Warning window appears CLICK Open



8. Inside Audirvana Plus Menu Bar open Preferences. Audirvana Plus > Preferences

| Audirvana Plus | File | Edit |
|--|----------|-----------|
| About Audirvan | a Plus | |
| Debug Info | | |
| Preferences Check for Updat Load License Fil | tes e | ж, |
| Services | | ► |
| iTunes Integrate | ed Mo | de |
| Hide Audirvana Hide Others Show All | Plus _ | H೫ H೫フ |
| Quit Audirvana | Plus | жQ |

9. Inside the Audirvana Preferences CLICK Audio System



10. Change the Preferred Audio Device to Mytek Digital Stereo192

| Prefe Selec | ct the new preferred device | | |
|-------------------|--|-----|-----|
| Active 44.1 48 | ✓ Built-in Output Built-in Line Output Built-in Digital Output Pro Tools Aggregate I/O Mytek Digital STEREO192-DSD DAC | D64 | DSD |

11. Under Active Audio Device Change Native DSD Capability to "Automatic Detection"

| Active | Audio | Devic | e | | | | | |
|--------|---------|--------|-----------|--------|---------|---------------------|-------|--------|
| | Mytek D | igital | STEREO | 192-1 | DSD DA | с | | |
| | 44.1 | 48 | 88.2 | 96 | 176.4 | 192 | DSD64 | DSD128 |
| 9 | Stereo | | | | | | | |
| | | • | ative DSI | D Capa | ability | Automatic Detection | n : | ÷ |
| | | | | | | | | |

12. Under Low Level Playback Options Enable Exclusive Access mode and Integer Mode

| Low level playback options | |
|----------------------------|--------------------------------------|
| Exclusive access mode | |
| 🗹 Direct Mode | ✓ Integer mode (if avail. on device) |
| | Integer Mode : Mode 1 📫 |

13. Under "Maximum memory allocated for tracks pre-load" set to 2048 or higher



14. Close **Audirvana Preferences** and begin playing **DSD** and high resolution files directly from the computer!



A note About Pure Music and Audirvana iTunes Integration

Programs that "piggyback" on iTunes must create "proxy" files or "bookmarks" to represent file types not directly supported in iTunes i.e. FLAC and DSD. These Files created are not audio files themselves merely shortcuts for the Music Servers to reference.

JRiver Media Center Installation

Mytek recommends the use of Firewire, as it is a true streaming format. If you do not have Firewire please continue to USB2.0 Setup.

FireWire (Core Audio) Setup with DoP DSD

- Ensure the Mytek Stereo192-DSD DAC input is set to FireWire and you have downloaded the latest version of JRiver Media Center by visiting <u>http://www.jriver.com/download.html</u>
- Locate and DOUBLE CLICK the MediaCenter.DMG (disk image) file, this will extract the JRiver Media Center Application. Typically the .DMG will be found in the Downloads Folder under your user name.



3. CLICK Agree to Accept the JRiver Media Center License Agreement

| MediaCenter 190103.dmg | |
|---|--|
| If you agree with the terms of this license, press "Agree" to install the software. If you do not agree, press "Disagree". SOFTWARE PROGRAM END-USER LICENSE AGREEMENT PLEASE READ THIS AGREEMENT CAREFULLY. WE LICENSE THE JRIVER SOFTWARE AND APPLICATIONS TO YOU ONLY IF YOU ACCEPT THE TERMS IN THIS LICENSE AGREEMENT. BY INSTALLING OR USING THIS SOFTWARE, YOU ARE AGREEING ELECTRONICALLY TO THE TERMS OF THIS AGREEMENT (THE "AGREEMENT" or "LICENSE"). JRIVER LICENSE AGREEMENT This Agreement applies to the PRODUCT (as defined below) provided by JRIVER, Inc. BY CLICKING THE ACCEPTANCE BUTTON OR INSTALLING OR USING THE PRODUCT, YOU ELECTRONICALLY AGREE ON BEHALF OF YOURSELF AND THE ENTITY YOU REPRESENT (IF APPLICABLE) THAT YOU OR SUCH ENTITY ARE BOUND BY, AND ARE BECOMING A PARTY TO, THIS AGREEMENT. AS THE "LICENSEE." 1. DEFINITIONS. | |

4. Follow the directions within the window by Dragging the Media Center to the Applications Folder



5. Goto the Applications Folder and Double CLICK the Media Center application



6. If a Warning window appears CLICK Open

| | "Media Center 19" is an application downloaded from the Internet. Are you sure you want to open it? |
|----|---|
| | Google Chrome downloaded this file on January 31, 2014 from yabb.jriver.com. |
| ?) | Show Web Page Cancel Open |

 Inside JRiver Locate and CLICK the Player tab and select PLAYBACK OPTIONS at the top of the screen.

| Player | Tools | Help | | |
|------------------------------|-----------------|--------------|---|---|
| Play/Pause | | Ctrl+P | | |
| Stop | | Ctrl+S | | |
| Stop After Current File | | Ctrl+Shift+S | _ | |
| Previous | | Ctrl+L | | |
| Next | | Ctrl+N | | |
| Ski | о То | | | • |
| See | Seek | | | • |
| Vol | Volume | | | • |
| Shuffle | | | | |
| Rep | Repeat | | | • |
| Pre | view Mode | | | • |
| Play | y Last.fm Ra | idio | | |
| Play | ying Now | | | • |
| Zor | ie. | | | • |
| Aud | lio Path | | | * |
| Dis | Display Options | | | • |
| DSF | Studio | | | |
| -Play | yback Optio | ns | | |

9. CLICK the AUDIO Tab



10. Under Audio Device choose Mytek_FireWire [Core Audio]



11. Staying inside Audio Tab under Audio Device CLICK Device settings



12. Inside the **Device setings** Dialog box under **Device** "X" box: "Open device with exclusive access" and click **OK**.



13. Under **Audio** Tab SELECT **Settings** Tab and CLICK **Bitstreaming** settings. SELECT **Custom...**



14. Inside the **Bitstreaming Formats dialog**, put an "X" inside the **DSD** box.

| ⊖ ○ Bitstreaming For | rmats | | | |
|----------------------------|-----------|--|--|--|
| Dolby Digital (AC3) | | | | |
| Dolby Digital Plus (E-AC3) | | | | |
| Dolby TrueHD | | | | |
| DTS | | | | |
| DTS-HD | | | | |
| DSD | | | | |
| | OK Cancel | | | |

- 15. CLICK OK inside the Bitstreaming Formats dialog and OK in the Options dialog.
- **16.** Close **JRiver** Playback Options and begin playing **DSD** and high resolution files directly from the computer!
USB2.0 (Core Audio) Setup with DoP DSD

- Ensure the Mytek Stereo192-DSD DAC input is set to USB2.0 and you have downloaded the latest version of JRiver Media Center by visiting <u>http://www.jriver.com/download.html</u>
- Locate and DOUBLE CLICK the MediaCenter.DMG (disk image) file, this will extract the JRiver Media Center Application. Typically the .DMG will be found in the Downloads Folder under your user name.



3. CLICK Agree to Accept the JRiver Media Center License Agreement

| MediaCenter190103.dmg | | |
|--|--|--|
| If you agree with the terms of this license, press "Agree" to install the software. If you do not agree, press "Disagree". | SOFTWARE PROGRAM END-USER LICENSE AGREEMENT PLEASE READ THIS AGREEMENT CAREFULLY. WE LICENSE THE JRIVER SOFTWARE AND APPLICATIONS TO YOU ONLY IF YOU ACCEPT THE TERMS IN THIS LICENSE AGREEMENT. BY INSTALLING OR USING THIS SOFTWARE, YOU ARE AGREEING ELECTRONICALLY TO THE TERMS OF THIS AGREEMENT (THE "AGREEMENT" or "LICENSE"). JRIVER LICENSE AGREEMENT This Agreement applies to the PRODUCT (as defined below) provided by JRIVER, Inc. BY CLICKING THE ACCEPTANCE BUTTON OR INSTALLING OR USING THE PRODUCT, YOU ELECTRONICALLY AGREE ON BEHALF OF YOURSELF AND THE ENTITY YOU REPRESENT (IF APPLICABLE) THAT YOU OR SUCH ENTITY ARE BOUND BY, AND ARE BECOMING A PARTY TO, THIS AGREEMENT. AS THE "LICENSEE." 1 DEFINITIONS | |
| | 1. DEFINITIONS. Print Save Disagree Agree | |
| | | |

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4. Follow the directions within the window by Dragging the Media Center to the Applications Folder



5. Goto the Applications Folder and Double CLICK the Media Center application



6. If a Warning window appears CLICK Open

| | "Media Center 19" is an application downloaded from the Internet. Are you sure you want to open it? |
|---|---|
| | Google Chrome downloaded this file on January 31, 2014 from yabb.jriver.com. |
| ? | Show Web Page Cancel Open |

 Inside JRiver Locate and CLICK the Player tab and select PLAYBACK OPTIONS at the top of the screen.



8. CLICK the AUDIO Tab



9. Under Audio Device choose Mytek Digital STEREO192-DSD DAC [Core Audio]



10. Staying inside Audio Tab under Audio Device CLICK Device settings

| Ŧ | Audio Device |
|---|--|
| | ✤ Mytek Digital STEREO192-DSD DAC [Core Audio] |
| | Device settings |

11. Inside the **Device setings** Dialog box under **Device** "X" box: "Open device with exclusive access" and click **OK**.



12. Under Audio Tab SELECT Settings Tab and CLICK Bitstreaming settings. SELECT Custom...



13. Inside the **Bitstreaming Formats dialog**, put an "X" inside the **DSD** box.

| 00 | Bitstreaming Formats | | |
|----------------------|----------------------|----|--------|
| Dolby Digital (AC3) |) | | |
| Dolby Digital Plus (| (E-AC3) | | |
| Dolby TrueHD | | | |
| DTS | | | |
| DTS-HD | | | |
| 🗹 DSD | | | |
| | | ОК | Cancel |

- 14. CLICK OK inside the Bitstreaming Formats dialog and OK in the Options dialog.
- **15.** Close **JRiver** Playback Options and begin playing **DSD** and high resolution files directly from the computer!

<u>Mytek Stereo192-DSD DAC DSD128</u> <u>Compatibility Chart</u>

| | Windows* | OS X** |
|-----------------------------------|----------|--------|
| Foobar2000 | | |
| USB2.0 ASIO Setup with DoP DSD | + | |
| USB2.0 ASIO Setup with Native DSD | + | |
| FireWire ASIO Setup with DoP DSD | - | |

Jriver Media Center

| USB2.0 Wasapi Setup with DoP DSD | + | |
|---|---|---|
| USB2.0 ASIO Setup with Native DSD | + | |
| FireWire Wasapi Setup with DoP DSD | - | |
| USB2.0 ASIO Setup with DoP DSD | + | |
| FireWire ASIO Setup with DoP DSD | - | |
| FireWire (CoreAudio) Setup with DoP DSD | | - |
| USB2.0 (CoreAudio) Setup with DoP DSD | | + |

Pure Music

| FireWire (Core Audio) Setup with DoP DSD | - |
|--|---|
| USB2.0 (Core Audio) Setup with DoP DSD | + |

Audirvana Plus

| FireWire (Core Audio) Setup with DoP DSD | + |
|--|---|
| USB2.0 (Core Audio) Setup with DoP DSD | + |

Requirements:

*Windows 7, 8 Firmware 1.7.6 USB driver 1.34.10, FireWire driver 4.1.3 or later

**Mac OS X 10.6, 10.7, 10.8, 10.9 Firmware 1.7.6 USB driver 2.03.51, FireWire driver 4.1.3 or later