Setup Instructions - ASIO

\$foobar2000

With the nano or micro iDSD or Retro Stereo 50, with Foobar2K, one must install the SACD/DSD input and ASIO output plug-ins to enable it to play true native DSD.

This step-by-step guide ensures your computer audio program is configured to natively DECODE DSD for full native playback.

Foobar2K is open-source. As such, there is no customer support. Beyond these instructions, it is best to check with the Foobar2K forum for detailed solutions to Foobar2K and its plug-ins.

Background:

If you already have Foobar2K installed, we recommend a full uninstall, clean all registries (eg CCleaner) and reboot the computer. Otherwise, the plug-ins may not work correctly. Also see User Notes at the end of this article.

For those seeking a more stable audio software playback solution, we recommend JRMC.

Please-download the following:

- i. <u>Super Audio CD Decoder/DSD input plug-in</u> http://sourceforge.net/projects/sacddecoder/files/ Save the downloaded file*foo_input_sacd-0.6.0.zip* into.
- ii. <u>Foobar2K</u> http://www.foobar2000.org/download.
 Save the downloaded file *foobar2000_v1.1.15.exe*.
- iii. Official ASIO output plug-in http://www.foobar2000.org/components/view/foo_out_asio
 Save the file foo_out_asio.fb2k-component.

Open the folder with the unzipped files ready for access from within Foobar2K.

<u>Step 1</u>: If using Windows (OS X not required as already compliant), install the **iFi driver** (<u>http://ifi-audio.com/portfolio-view/nano-idsd/</u> >iFi USB Audio Class 2.0 Driver

Step 2: Install Foo_Input (ASIO Proxy_Install_xxx.exe)

Step 3: Install Foobar2K (STANDARD version NOT portable)

From Foobar 2K, select File > Preferences. Click "Install" > "foo_input_sacd.xxx-component"



Step 4: Again, click on "Install" and select "foo_out_asio.fb2k-component"



<u>Step 5</u>. Foobar2K will ask for permission to restart....click "OK"

<u>Step 6</u>. After Foobar2K has restarted, go back into File > Components.

You should have "ASIO support" and Super Audio CD Decoder installed as outlined:

Technical Support ? Preferences: Components Installed components: Right-click a component for additional options. Components Name Version Module - Context Menu Album List foo albumlist 4.5 ▷ Default User Interface ASIO support 2.1.2 foo_out_asio Keyboard Shortcuts CD Audio roo_coda Media Library Converter 1.5 foo_converter Album List Default User Interface 0.9.5 foo_ui_std Networking Equalizer foo_dsp_eq 1.0 Playback --- DSP Manager File Operations 2.2.1 foo_fileops ⊿ Output foobar2000 core 1.3.3 Core - ASIO foo_freedb2 Online Tagger 0.7 ···· Shell Integration ReplayGain Scanner 2.2.1 foo_rgscan ⊿ · Tools Standard DSP Array 1.3 foo_dsp_std --- SACD Standard Input Arr 1.0 foo input str . ⊳ ∙ Tagging Super Audio CD Decoder 0.7.1 foo_input_sacd - Advanced ZIP/GZIP/RAR Rea 1.6 too_unpack <u>Get more components</u> Why are some components grayed out? Install... Copy report Get updates Reset all Reset page OK Cancel Apply

<u>Step 7</u>: Under Preferences >Playback> Output confirm "ASIO: foo_dsd_asio"

Components	Device	
- Display - Keyboard Shortcuts	ASIO : foo_dsd_asio	
Media Library		
- Networking Playback	Buffer length	
- DSP Manager	- 	
4 Output		
- Shell Integration	Warning: setting too low buffer length may cause some visualization effects to stop	working.
Tools	Output format	
SACD ▷ - Tagging Advanced	Outout data format:	ver
	Output data format will be chosen automatically for the selected device.	
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Tip: Try "Buffer length" of ~10,000 ms too, to determine which works best for your PC.

Ŷ	foobar2000 v1.3.3						
	Preferences: ASIO ? ×						
Components Display Context Menu Default User Interface Keyboard Shortcuts Media Library LAlbum List Networking Playback DSP Manager Coutput LASIO SP Manager Coutput LASIO Default Integration Cools Default Integration Advanced	ASIO drivers foo_dsd_asio IFI (by AMR) HD USB Audio JRiver Media Center 19 Double-click an entry to activate the driver's control panel.						
	Use 6+ bit ASIO drivers Foo_dsd_asio v0.7.1.2 Run wit foo_dsd_asio v0.7.1.2 ASIO Driver: Fi (by AMR) HD USB Audio DSD Playback Method: ASIO Native DSD to DSD Method: None PCM to DSD Method: None This feature SOD/PCM Transition: 1000 ms V You may need to close and re-open the foobar 2000 preferences dialog for your newly added mappings to appear as output devices in the "output" page. Reset all Reset page OK Cancel	Durat 4:01					

<u>Step 8</u>: Under Preferences >Playback> Output > ASIO confirm these selections

<u>Step 9</u>: Under Components > Tools > SACD confirm these settings

	Preferences: SACD	? ×
Components Display Keyboard Shortcuts Media Library Networking Playback DSD PManager Input DSD IFF Decoder Output Shell Integration Tools Advanced	ASIO Driver Mode: DSD V PCM Volume: +0dB V PCM Samplerate: 352800 V DSD2PCM Mode: Multistage (Fixed-Point) V Load Save Preferable Area: None V Editable Tags Store Tags With ISO Edited Master Playback	

<u>Step 10</u>: Exit. You are now ready to enjoy DSD without conversion to another format on your iDSD/Retro Stereo 50 by iFi.

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User Notes:

We have tried this installation on approximately 10 work computers and sometimes when playing DSD, the GREEN LED is lit on the micro iDSD.

In which case, this means that Foobar has reverted back and PCM is being passed through. You may also receive an error message when playing DSD files.

In either case, as in Step 2: go back into <u>Components > Super Audio CD Decoder</u> and reinstall "foo_input_sacd" then Foobar2K should play DSD natively back through the chain again.

Unfortunately, this is the vagaries of open-source software and maybe a future revision will make the playback software more reliable.