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Setup Instructions - ASIO

\$foobar2000

With the nano or micro iDSD or Retro Stereo 50, with Foobar2K, one must install the 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 that you go to the Foobar2K forum to look for detailed solutions to Foobar2K and its plug-ins.

Background:

If you already have Foobar2K installed, we recommend a full uninstall and then clean all registries (eg CCleaner) and reboot. 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 install in the following order: 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.

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<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 Installation 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"



Step 5. 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 below:

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 AUG 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 foobar 2000 core 1.3.3 Core - ASIO foo_freedb2 Online Tagger 0.7 ReplayGain Scanner 2.2.1 foo_rgscan ⊿ · Tools Standard DSP Array 1.3 foo_dsp_std SACD Standard Input Ar foo input st . ⊳ ∙ Tagging Super Audio CD Decoder 0.7.1 foo_input_sacd - Advanced ZIP/GZIP/RAR Read 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 "foo_asio"

Components	Device				
- Display - Keyboard Shortcuts	ASIO : foo_dsd_asio				
Media Library					
Networking	Buffer length				
Playback DSP Manager					
4 Output	500 ms Warning: setting too low buffer length may cause some visualization effects to stop working.				
ASIO					
- Shell Integration					
├- SACD ▷ - Tagging Advanced	Output format				
	Output data format:	v Dither			
	Output data format will be chosen automatically for the selected	device.			

Step 8: Under Preferences >Playback> Output > ASIO confirm these correct selections

Technical Support - - -٢ foobar2000 v1.3.3 ? × Preferences: ASIO ASIO drivers ···· Components ⊿ Display foo_dsd_asio iFi (by AMR) HD USB Audio JRiver Media Center 19 - Context Menu ▷ Default User Interface Keyboard Shortcuts Media Library ---- Album List --- Networking . ⊿ Playback Double-click an entry to activate the driver's control panel. DSP Manager Output ASIO Use 64 bit ASIO drivers Run w foo_dsd_asio v0.7.1.2 Shell Integration ▲ Tools Custor --- SACD ASIO Driver: Fi (• : ⊳∙Tagging • Durat... DSD Playback Method: ASIO Native ---- Advanced 4:01 DSD to DSD Method: None ▼ Fs: DSD512 ▼ ▼ Fs: DSD512 ▼ PCM to DSD Method: None DSD/PCM Transition: 1000 ms -This featu soundcare You may need to close and re-open the foobar2000 preferences dialog for your newly added mappings to appear as output devices in the "output" page. Reset all Reset page OK Cancel Apply

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

Preferences: SACD	?	×
Components Display Keyboard Shortcuts Media Library Networking Playback DSP Manager A Input DSP Manager A Input DSDIFF Decoder A Jobut ASIO Shell Integration Tools SACD Advanced 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 by iFi.

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Technical Support

Visible_invisible_dsd256 [foobar2000 v1.3.3] ×						
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		Location — File name Folder name File path Subsong index File size Last modified	Visible_invisible_dsd256.dff C:\Users\Computer Audio\Music\Quad-Speed by Ryo C:\Users\Computer Audio\Music\Quad-Speed by Ryo\Visible_invisible_dsd256.dff 0 945 MB (991 641 302 bytes) 2014-07-08 14:17:36			
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by artist/album v ? DSD256 22579 kbps 11289600 Hz stereo 0:32 / 5:51						

User Notes:

We have tried this installation on approximately 10 work computers and sometimes the GREEN LED is lit on the micro iDSD. In which case, Foobar has reverted back to PCM. We have found that one goes back into Components > Super Audio CD Decoder and reinstalls "foo_input_sacd" then Foobar2K will play DSD back through the chain again.

Unfortunately, this is the vagaries of open-source software and it is probably waiting for a revision which makes the playback software more reliable.