ADL A1 DSD Playback Guide

Install playback software on Windows

1. ADL suggests using Foobar media player for DSD playback. Go to the following website and download and install the latest stable version of Foobar media player: <u>http://www.foobar2000.org/download</u>

Download foobar2000

Files released under the <u>foobar2000 license</u>. Release information can be found in the <u>change log</u>.

Latest stable version

Download foobar2000 v1.3.1

- 2. Download and open the "foo_input_SACD" zip file from the following link: <u>http://sourceforge.net/projects/sacddecoder/files/latest/download</u>
- 3. Unzip the file using software and save the folder to hard drive.
- 4. Open up the folder and install 2 files listed below

foobar	foo_input_sacd-0.6.6				▼ \$ Search	Q
<u>H</u> elp						
• 0	Burn	_				0
	Name	Date modified	Туре	Size		
	January filters	11/11/2013 11:20 AM	File Folder			
		29/07/2013 8:37 PM	File Folder			
	🕼 ASIOProxyInstall-0.6.5	29/07/2013 11:37 PM	Application	159 KB		
	input_sacd	11/11/2013 11:35 AM	foobar2000 Component	157 KB		
	readme	11/11/2013 11:34 AM	Text Document	6 KB		

- 5. First double click on "foo_input_sacd.fb2k-component" for installation.
 - a. Click "Yes" to continue install of foo_input_sacd.fb2k-component.
 - b. Click "OK" (Foobar will automatically open)
 - c. Click "OK" again and Foobar will close and restart

Components	Installed components:	Ri	ght-click a component for additional o
Display	Name	Version	Module
Keyboard Shortcuts	Album List	4.5	foo albumlist
Media Library	ASIO support	2.1.2	foo out asio
Networking	CD Audio Decoder	3.0	foo cdda
PldyDdCk DSP Manager	Converter	1.5	foo converter
	Default User Interface	0.9.5	foo ui std
ASIO	Equalizer	1.0	foo_dsp_eq
Shell Integration	File Operations	2.2	foo_fileops
Tools	foobar2000 core	1.3.1	Core
SACD	Online Tagger	0.7	foo_freedb2
▷ Tagging	ReplayGain Scanner	2.2	foo_rgscan
Advanced	Standard DSP Array	1.3	foo_dsp_std
	Standard Input Array	1.0	foo_input_std
	(unknown - please apply changes to l	oad) (unknown)	foo_input_sacd
	ZIP/GZIP/RAR Reader	1.6	foo_unpack
	Why are some components grayed out	?	Copy report Get upo

- 6. Double click on "ASIOProxyInstall-0.6.5.exe" for installation.
 - a. Click Next and continue with install.



7. Download the ASIO plugin from http://www.foobar2000.org/components/view/foo_out_asio

∜foobar2000							
Overview	Download	Components	Screenshots	Support	SDK		
ASIO support <i>By: Peter</i> Provides ASIO output su	upport.						
Version 2.1.2 highlights: * Fixed phase inversion with 32-bit output.							
Please note that this component is meant for systems where ASIO is the only available output method. It is highly recommended to use the default output modes instead of ASIO. Contrary to popular "audiophile" claims, there are NO benefits from using ASIO as far as music playback quality is concerned, while bugs in ASIO drivers may severely degrade the performance.							
Current version 2.1.2, released on 2012	-06-06						
Links Download Documentation							

- 8. Once downloaded, double click on "foo_out_asio.fb2k-component" for installation.
 - a. Click "Yes" to continue install of foo_out_asio.fb2k-component.
 - b. Click "OK" (Foobar will close and restart)

Components	Installed components:		Right-click a component for additional	
Display	Name	Version	Module	
Keyboard Shortcuts	Album List	4 5	foo albumlist	
> Media Library	(unknown - please apply changes to load	(unknown)	foo out asio	
Networking	CD Audio Decoder	3.0	foo_cdda	
Playback	Converter	1.5	foo_converter	
DSP Manager	Default User Interface	0.9.5	foo ui std	
▲ Output	Equilizer	1.0	foo doo oo	
Shall Integration	Ele Operations	2.0	foo floors	
Toolo	fachar 2000 core	1.2.1	Coro	
- TOOIS	Opline Tagger	1.5.1	for freedb2	
N. Tagging	Dealer Caia Sananan	0.7	foo_freedb2	
	ReplayGain Scanner	2.2	foo_rgscan	
Advanced	Standard DSP Array	1.3	too_dsp_std	
	Standard Input Array	1.0	foo_input_std	
	Super Audio CD Decoder	0.6.6	foo_input_sacd	
	ZIP/GZIP/RAR Reader	1.6	foo_unpack	
	Get more components			
	Why are some components grayed out?	Ir	stall Copy report Get	
		_		

- 9. Once all installations have completed, check for Foobar output function for Device "ASIO: ADL A1 ASIO Driver":
 - a. Go to Foobar "Preferences" on the "File" dropdown list
 - b. Select "Playback" and then "Output"
 - c. On the "Device" dropdown list select "ASIO: foo_dsd_asio" for DSD file playback.
 - d. Adjust the ASIO Buffer Size to 1030ms to ensure smooth playback.

Preferences: Output	
···· Components	Device
Display	ASIO - ADI A1 ASIO Driver
Keyboard Shortcuts	ASIO : ADL AT ASIO Driver
Networking	Buffer length
▲ Playback	
Output	1020
ASIO	Warning: setting too low buffer length may cause some visualization effects to stop working.
SACD	Output format
▷ · Tagging	Output data format:
Advanced	Output data format will be chosen automatically for the selected device.
	Reset all Reset page OK Cancel Apply
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- 10. For DSD playback configure the ASIO output.
 - a. Go to File > Preferences > Playback > Output > ASIO
 - b. Under the "ASIO drivers" double-click on "foo_dsd_asio" to activate the driver's control panel and change the settings accordingly.
 - c. ASIO Driver: Select VIA ASIO Driver
 - d. DSD Playback Method: Select 「DoP Marker 0x05/0xFA」
 - e. PCM to DSD method: Select None
 - f. Fs: Select DSD64
 - g. DSD/PCM Transition: Select 0 ms
 - h. Do not select "Use 64-bit ASIO drivers" (A1 support ASIO drivers 32-bit Max.)

Components	ASIO drivers					
Display						
Media Library	ADL 21 ASIO Driver					
Networking	foo_dsd_asio					
	ADL A1 ASIO Driver					
DSP Manager						
⊿ · Output						
ASIO						
···· Shell Integration	Double-click an entry to activate the driver's control panel.					
Tools	Use 64-bit ASIO drivers					
SACD	Run with high process priority					
Advanced	foo_dsd_asio v0.6.5					
	ASIO Driver					
	ASIO DIIVEI:					
	DSD Playback Method: DoP Marker 0x05/0xFA					
	PCM to DSD Method: None					
	DSD/PCM Transition: 0 ms					
	You may need to close and re-open the foobar2000 preferences dialog for your newly					
	auteu mappings to appear as output devices in the output page.					

- 11. Configure the SACD plugin to play DSD (and not convert from DSD to PCM)
 - a. Go to File > Preferences > Tools > SACD
 - b. Change the settings accordingly.
 - c. ASIO Driver Mode: Select DSD
 - d. PCM Sample rate: Select 176400 and click "Apply" and "OK"

Preferences: SACD		? x
: Components		
⊳ Display	ASIO Driver Mode: DSD 🔹	
···· Keyboard Shortcuts		
- Networking	PCM Volume: +0dB	
⊿ · Playback	PCM Samplerate: 176400 💌	
ASIO	DSD2PCM Mode: Multistage (Fixed-Point)	
SACD	Preferable Area: None 🔻	
⊳·Tagging		
···· Advanced	Editable Tags Store Tags With ISO	
	Edited Master Playback	
	Reset all Reset page OK Cancel	Apply