Questyle

Audio Engineering

USB Driver Installation and JRiver/Foobar Setup

CMA Twelve DAC with Headphone Amplifier

SHB2 Super Hub

CMA400i DAC with Headphone Amplifier

CMA600i DAC with Headphone Amplifier

www.questyle.com

Contents

PC System Requirements 02

Install CMA Twelve/SHB2/CMA400i/CMA600i Driver on Windows OS 03

Core Audio Stream Introduction 06

Setup Core Audio Stream on JRiver Media Center 06

True DSD Technology 10

Setup DSD on JRiver Media Center 10

Install Foobar2000 14

Setup on Mac OS 26

Cautions 27

Congratulations to you for being the owner of Questyle Audio products.

USB Driver Installation and JRiver/Foobar Setup are the same on Questyle Audio's desktop devices (including CMA Twelve, SHB2, CMA400i and CMA600i). Please follow the instructions below to find out how to install USB Driver or set up JRiver/-Foobar.

PC System Requirements

1) Operation System
CMA Twelve, SHB2, CMA400i and CMA600i driver and hardware support Win XP / Vista / Win7 / Win8 / Win8.1/ Win10. For Apple Mac OS, later versions than the 10.5.7 are well matched without installing any driver.

2) Media Player
CMA Twelve, SHB2,CMA400i and CMA600i are not limited to any special media player. Any PC compatible player (including video players) is well matched.

3) File Format
File format is up to the media player on your PC. CMA Twelve, SHB2, CMA400i and CMA600i can decode any file format that the media player supports.

4) Requirements for PC Configuration
At least one USB port is required. An acceptable USB2.0 high-speed cable of type A-to-B plug. We suggest using the high-quality USB cable to ensure the stability and reliability of data transmission and guarantee the best performance of CMA Twelve, SHB2, CMA400i and CMA600i.

Install CMA Twelve/SHB2/CMA400i/CMA600i Driver on Windows OS

CMA Twelve, SHB2, CMA400i and CMA600i can be recognized by PC after installing the device driver on Windows OS. We take Win7 64bit OS for an example to show the Driver installation.

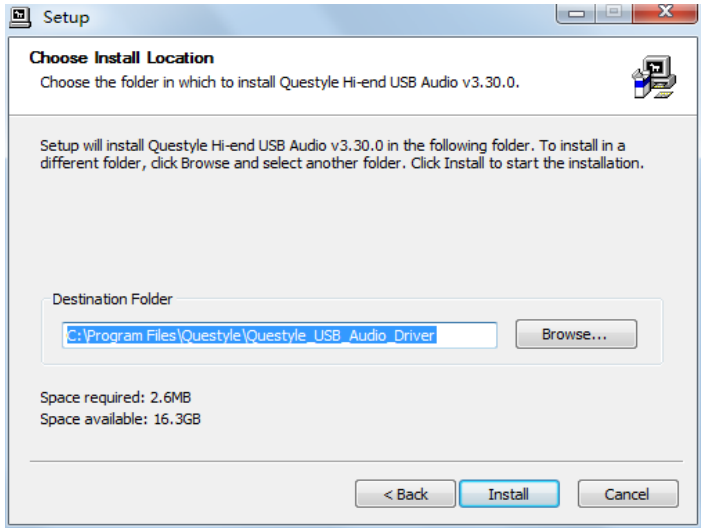
1) Connect your device to its power supply and switch it on;

2) Connect your device to PC with a USB cable;

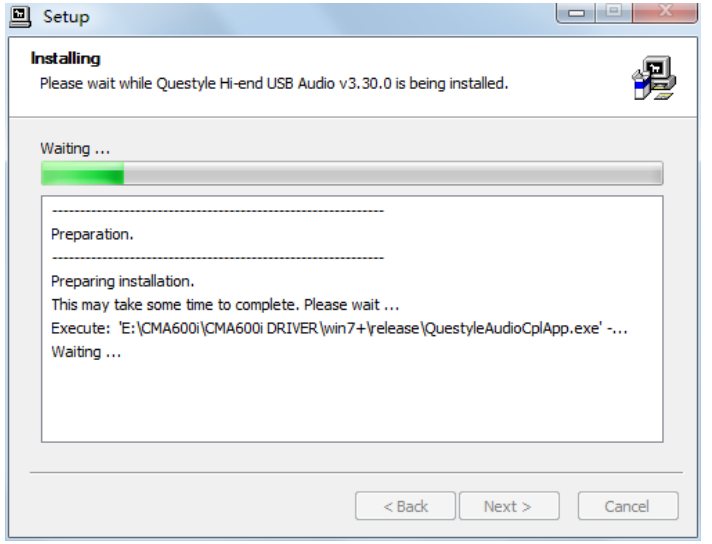
3) Put the provided device driver disc into your PC and open the folder labeled "Driver / For Windows 7, 8, 8.1 and 10 / ", and then double click "Setup.exe".

4) Then follow the steps below:

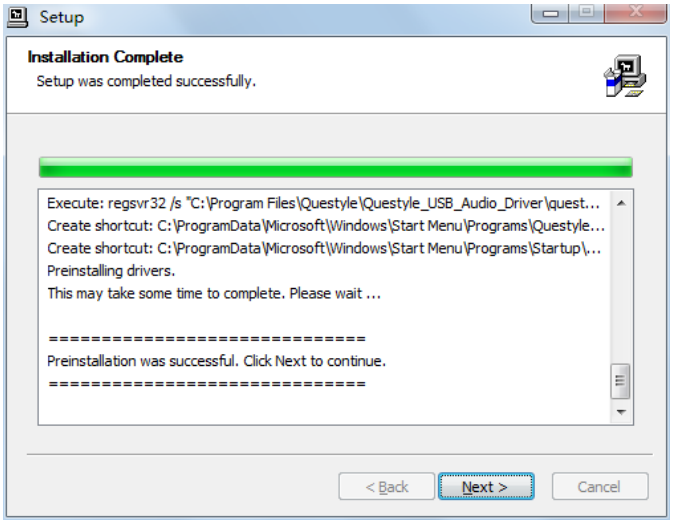
Click “Install” (Default install location is C drive)



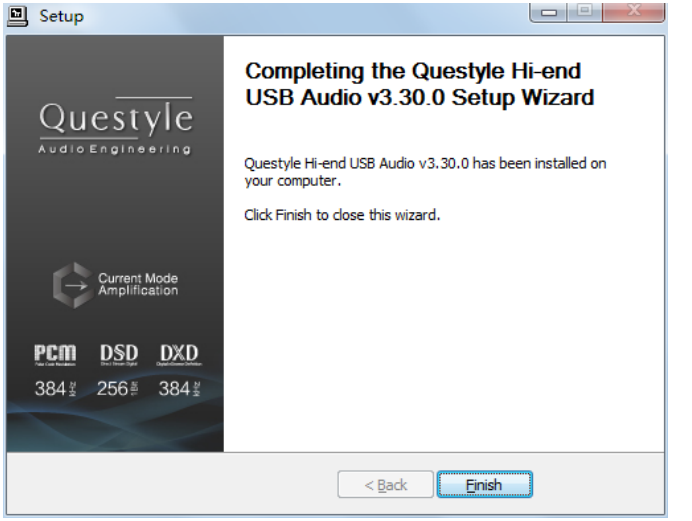
Installation will take 3 or 5 minutes



Installation is completed, click “Next”



Click “Finish” to exit the installation



5) Restart your PC and the device driver is finished installation;

6) Installation on Win XP, Vista is similar to the above.

Core Audio Stream Introduction

Core Audio Stream has formats of ASIO, KS and WASAPI, all of which can be supported perfectly by CMA Twelve, SHB2, CMA400i and CMA600i. Besides, CMA Twelve, SHB2, CMA400i and CMA600i support DSD format.

According to general audio processing procedures of PC, all the sound from applications and systems is processed by SRC, going through the lengthy system processing and hardware layer transmission, and then output to the external device. The output data are totally different after all those procedures. To output the pure, original and “bit-perfect” data, we must open a high-speed and dedicated channel for audio device, which is the core audio stream technology.

CMA Twelve, SHB2, CMA400i and CMA600i supports ASIO and KS on Win XP systems, and supports ASIO and WASAPI on Vista, Win7, Win8, Win10 systems. For example, when you enable WASAPI + Exclusive Mode between CMA Twelve, SHB2,CMA400i and CMA600i and player software (like JRiver), you can't control the volume through system controller, the sound from the system or any other application will not be heard at the CMA Twelve, SHB2, CMA400i and CMA600i output, which is because the system has opened the Core Audio Stream channel for CMA Twelve, SHB2, CMA400i and CMA600i and the audio data directly get to the DAC of CMA Twelve, SHB2, CMA400i and CMA600i with high-speed.

Setup Core Audio Stream on JRiver Media Center

We recommend using Jriver Media Center 20 for getting the best performance.
JRiver Media Center is a fully functional media management and playback software. It can manage your music in groups and can stream music from the Internet. It also can be used for MP3 or DVD burning. JRiver can support kinds of audio files including MP3, MusicEx, WAV, OGG, RealAudio, RealVideo, AVI, Quick-Time etc.
Let’s take JRiver Media Center player 20 on Win7 32bit OS for an example to explain how to setup WASAPI.

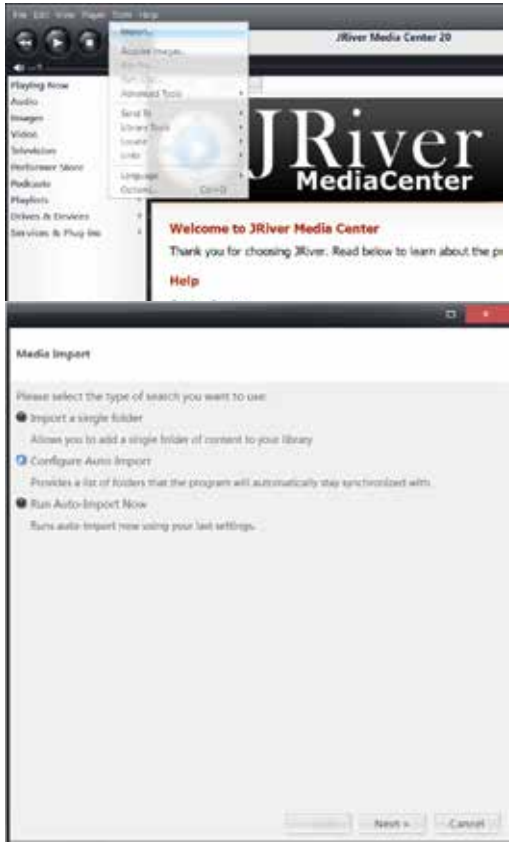
I Download and Install

1) Go to JRiver website (http://www.jriver.com/download.html), and click WINDOWS DOWNLOAD to download JRiver Media Center 20.0.131;

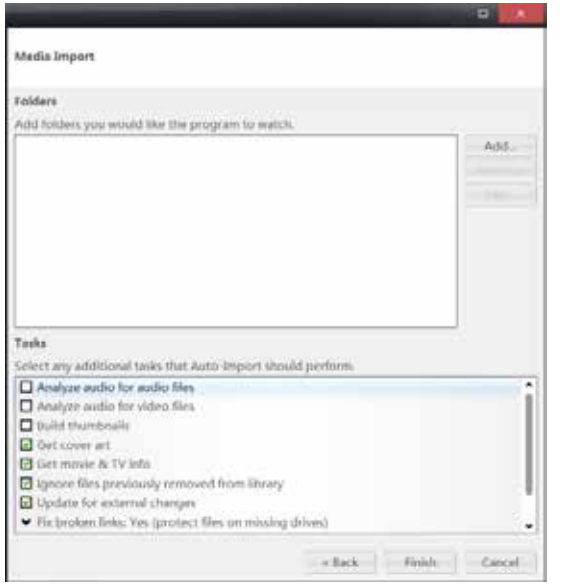
2) Install JRiver Media Center 20.

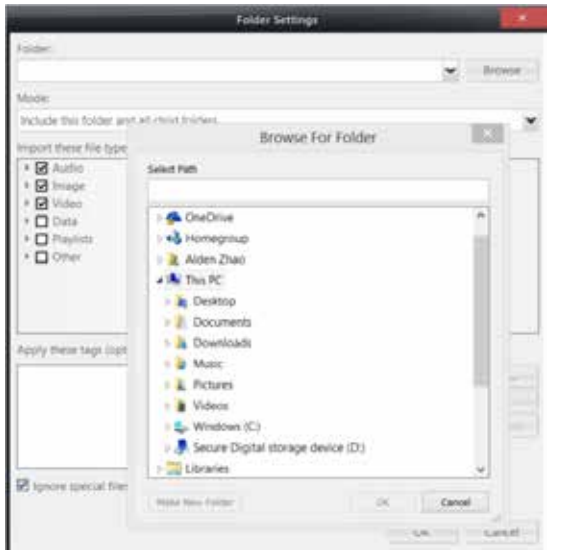
II Import Songs

1) Open “JRiver Media Center”, click “Tools”-“Import” and select “Configure Auto Import ”, and then click “Next”;



2) Click “Add”-“Browse”, select the folder that contains songs, and then click “OK”-“Finish”.

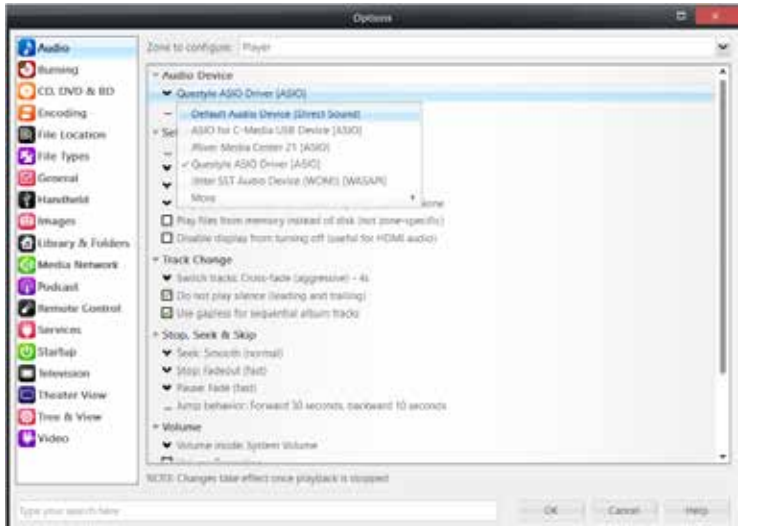




III JRiver Output Setup

1) Click “Tools” and select “Options”;

2) Select “Audio Device” under “Options”, and click ”Questyle ASIO Driver[ASIO]” and select “Default Audio Device”, and then click “OK”.

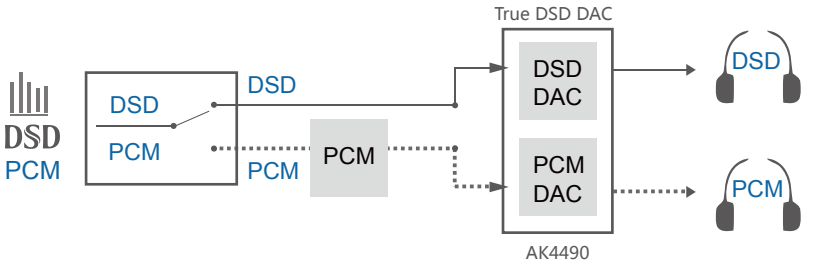


True DSD（Direct Stream Digital）Technology

（China Intellectual Property Office Patent No. 201520211945.X）

Nothing is better than the true. The True DSD technology is one of the core patented technologies of Questyle Audio. It processes DSD signals without any PCM converting and provides True DSD, which is fundamentally different from DoP and Native DSD.

When the system processes DSD signals, hardware mode switches to the True DSD channel. In this case, options for digital filter and digital volume control fail, strictly following the process of SACD playback.



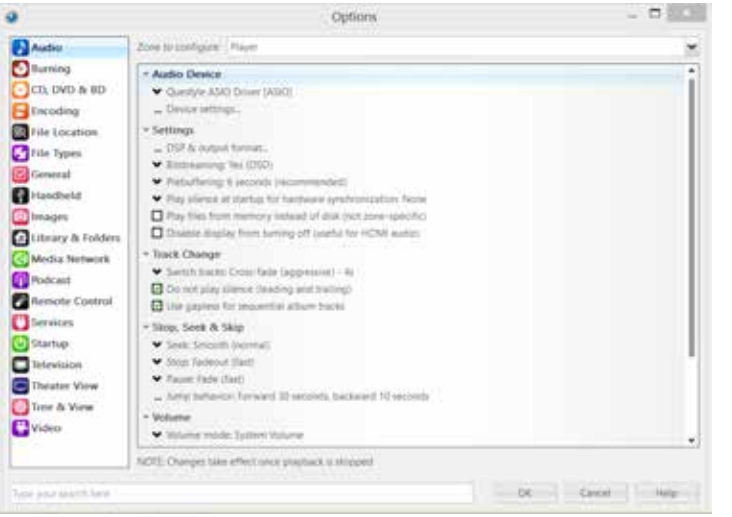
Setup DSD on JRiver Media Center

1) Connect your CMA Twelve, SHB2,CMA400i and CMA600i to its power supply and switch it on;

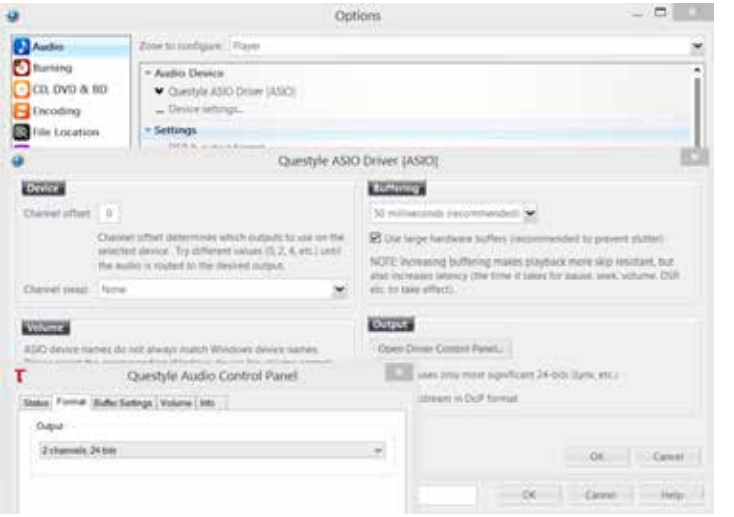
2) Connect your CMA Twelve, SHB2,CMA400i and CMA600i to PC with a USB cable;

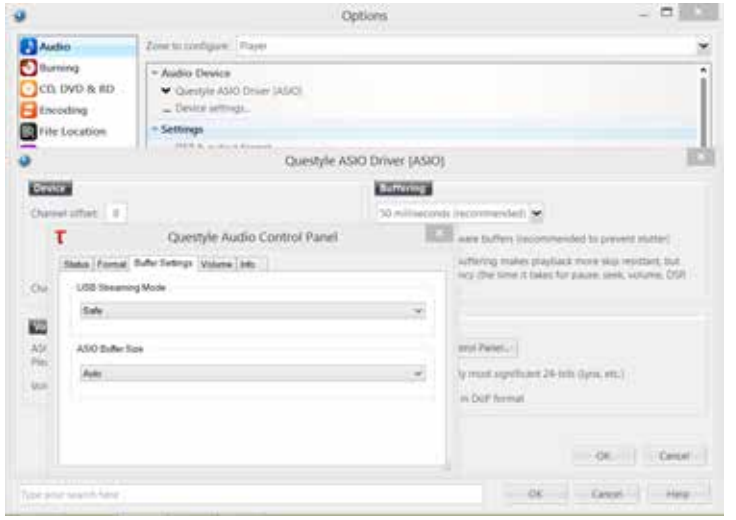
3) Open JRiver Media Center, click “Tools” and then select “Options”;

4) Select “Questyle ASIO Driver[ASIO]” under “Audio Device”;

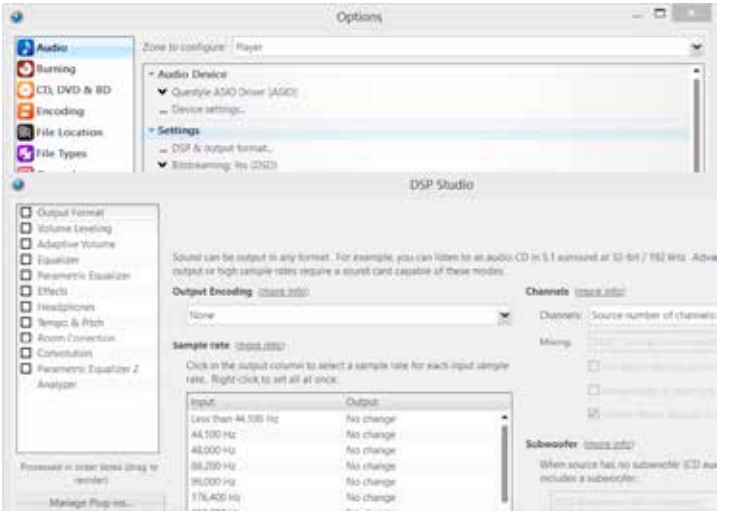


5) Select “Device Settings” under “Audio Device” and click ”Open Driver Control Panel” under the ASIO, then select “Format”-“2Channels,24Bits”; select “Buffer Settings”-”Safe”,”Auto”; then close and click “OK” .

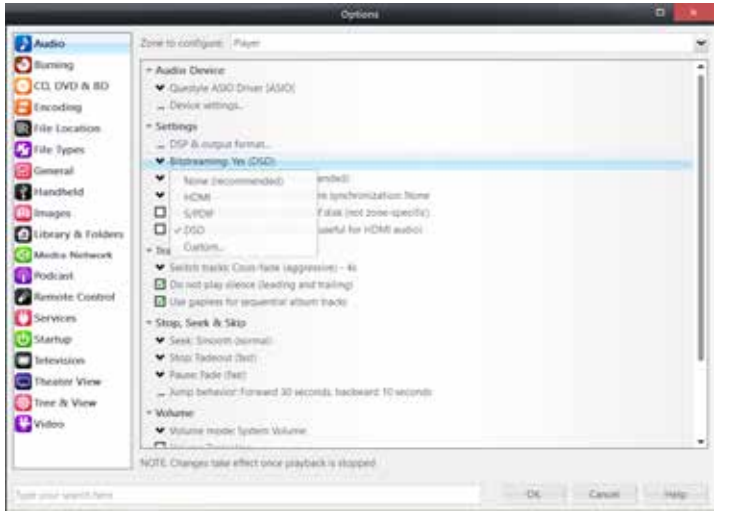




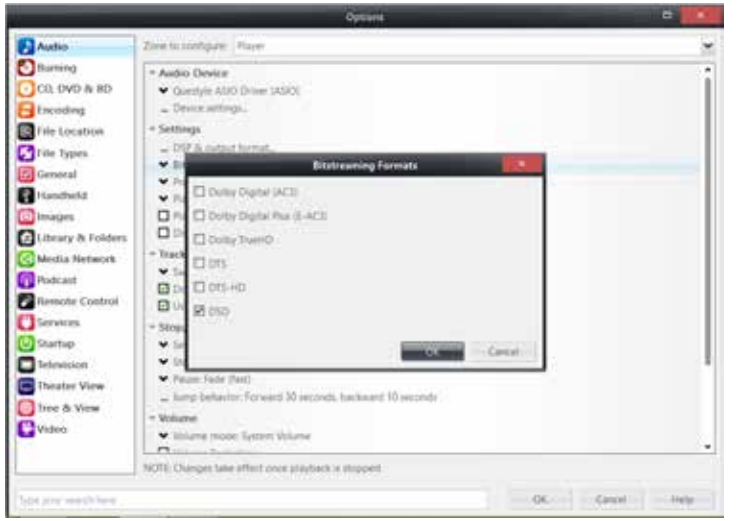
6) Click “DSP & output format” under “Settings”. Make sure nothing on the left row is ticked. (To wit: without any processing to DSD data, ensuring original sound.)



7) Select “Custom” under “Bitstreaming: Yes(DSD) ”

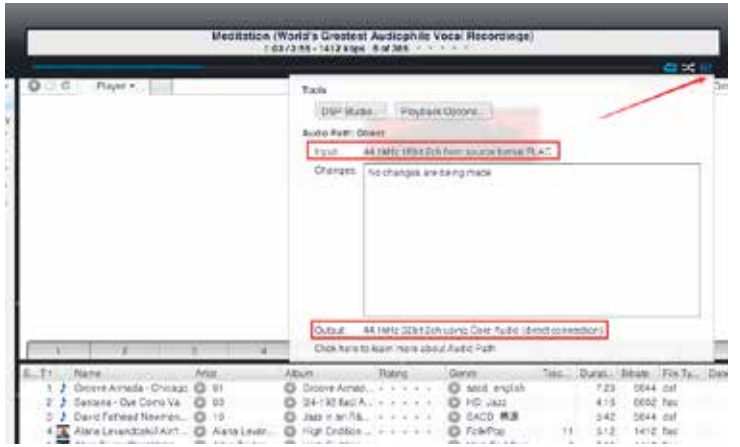


8) Tick “DSD” and then click “OK”.



Save and exit. The setup is completed.

9) With a song playing, put the mouse pointer at where the arrow is pointing to view current input and output.



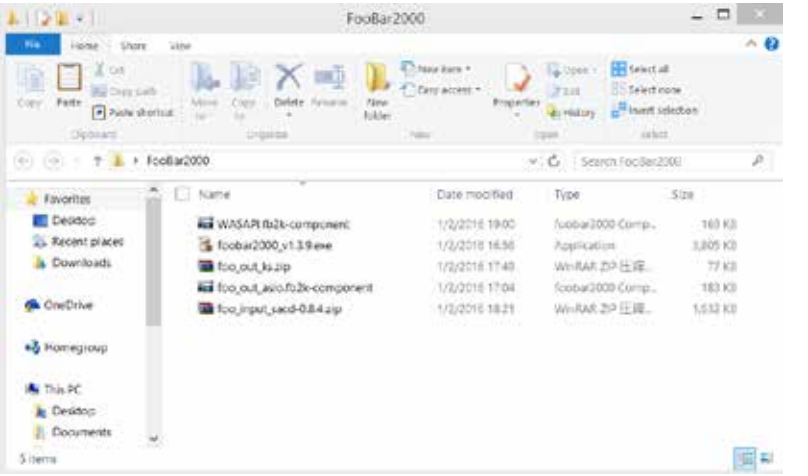
Install Foobar2000

Foobar2000 is a free and multifunctional audio player as well as a powerful tool for audio processing.

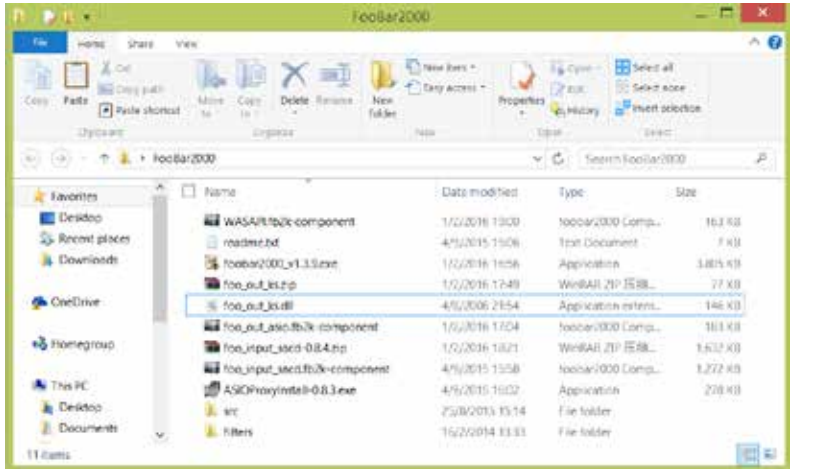
I Download the Following Software and Plugins

1. Take Foobar2000 V1.3.9 for an example
   http://www.foobar2000.org/download
2. ASIO channel plugin
   http://www.foobar2000.org/components/view/foo_out_asio
3. WASAPI channel plugin (no need for higher versions than WIN7)
   http://www.foobar2000.org/components/view/foo_out_wasapi
4. Core Audio Stream channel plugin (no need for WINDOWS XP)
   http://www.foobar2000.org/components/view/foo_out_ks
5. ASIO driver (take ASIOProxyInstall-0.8.4 for an example)
   http://sourceforge.net/projects/sacddecoder/files/foo_input_sacd/

You will get 5 files after the above download (as shown below):



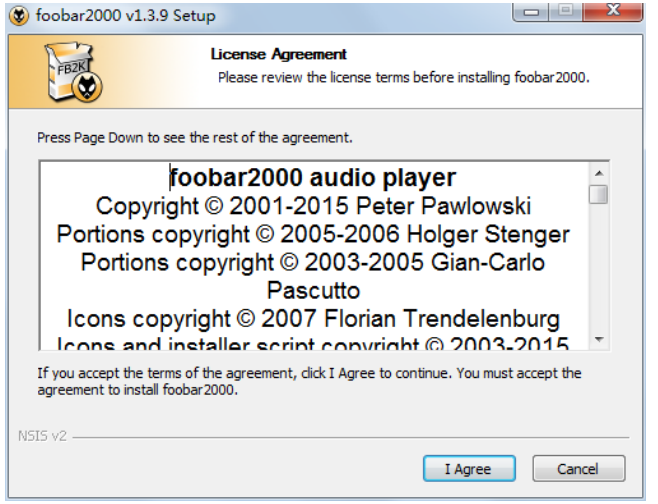
After the unzipping, you will see the following:



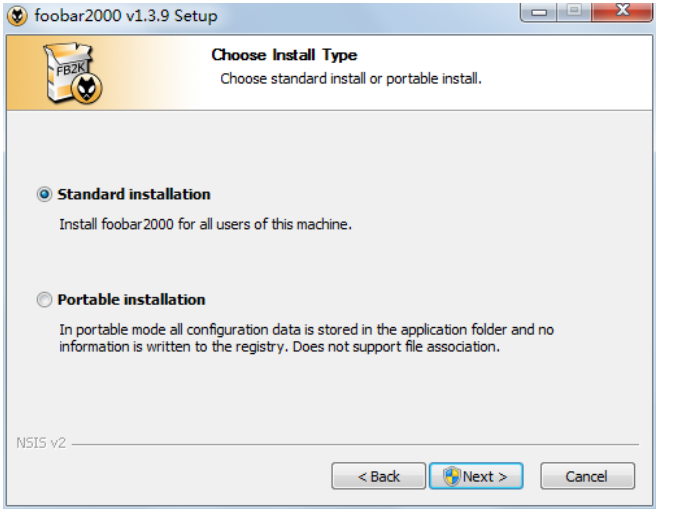
II Install Foobar2000 V1.3.9

1. Double click foobar2000_v1.3.9.exe to install Foobar2000, and then click “Next”.

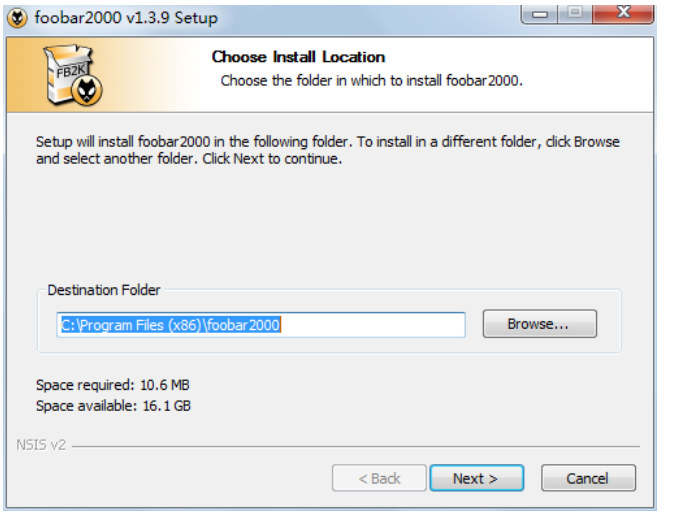
2. Click “I Agree”.



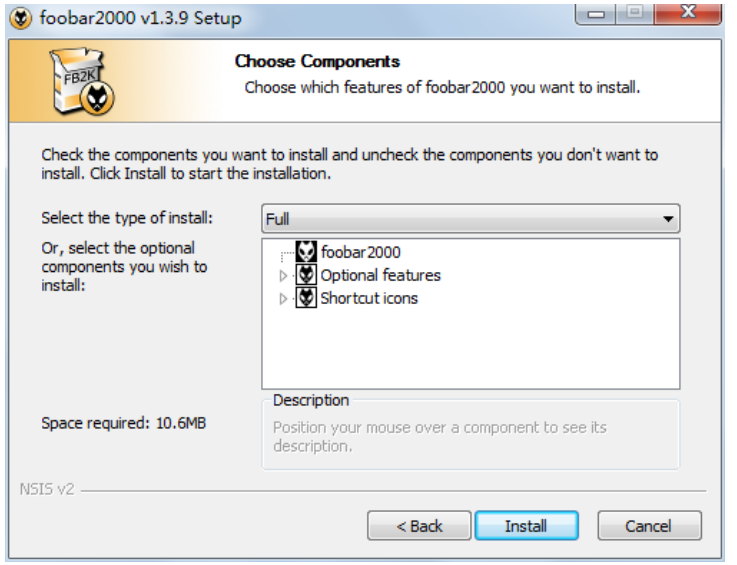
3. Select “Standard installation”.
4. Click “Next” to choose Foobar2000 install location. (Default install location is C drive)

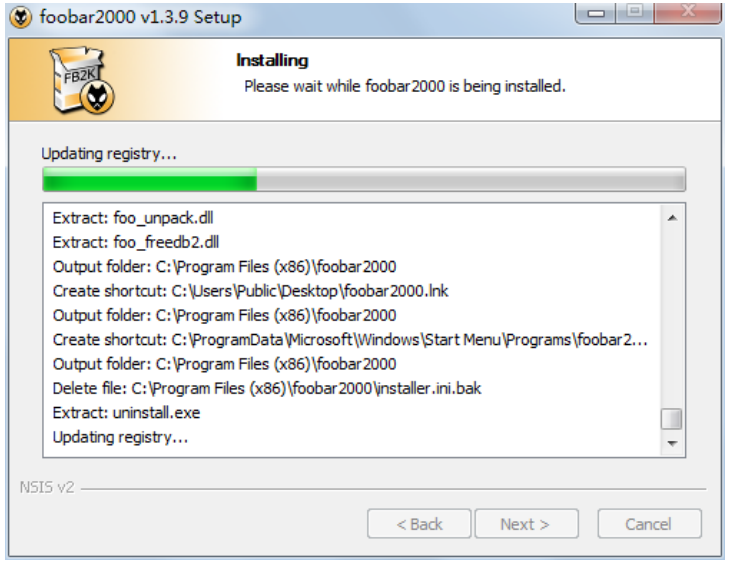


5. Click “Next”.

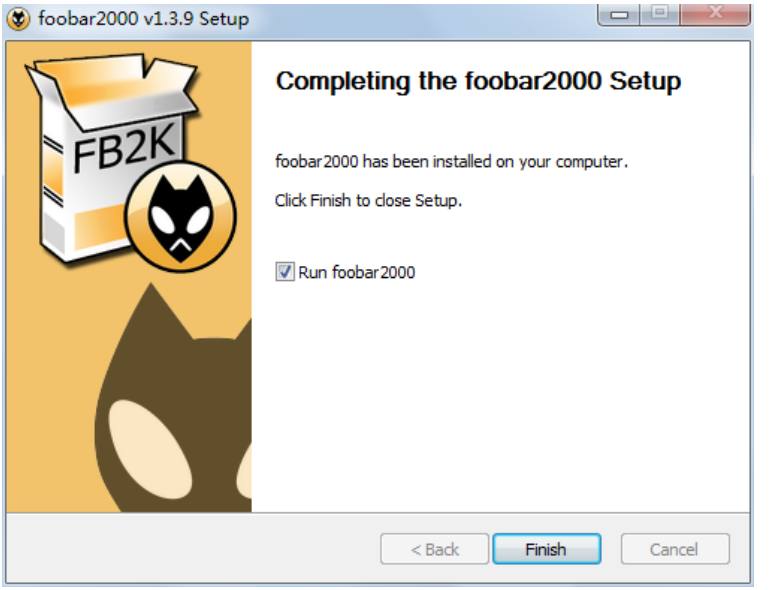


6. Click “Install”. (Default installation of all the components)



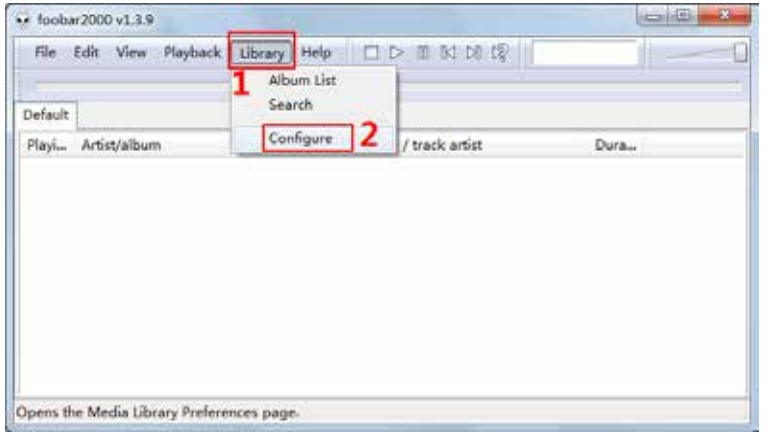


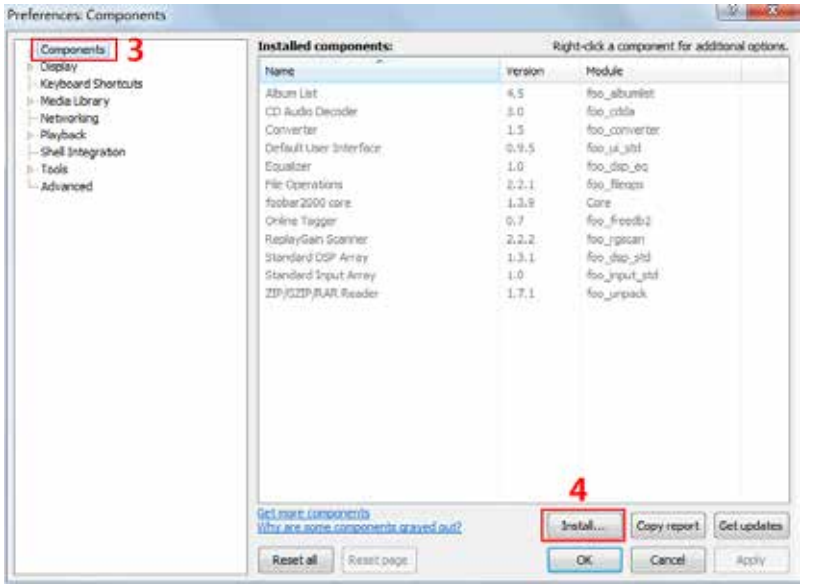
7. Click “Finish” and run Foobar2000.

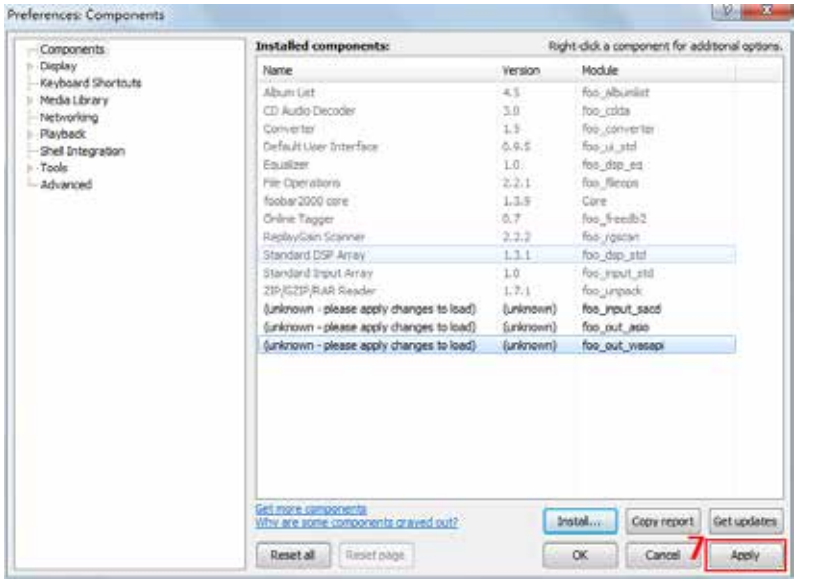


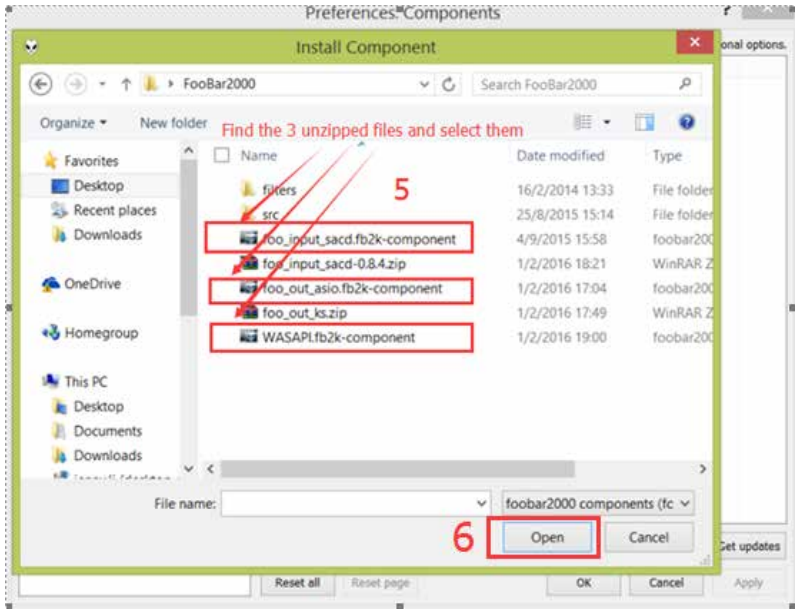
III Install Plugins

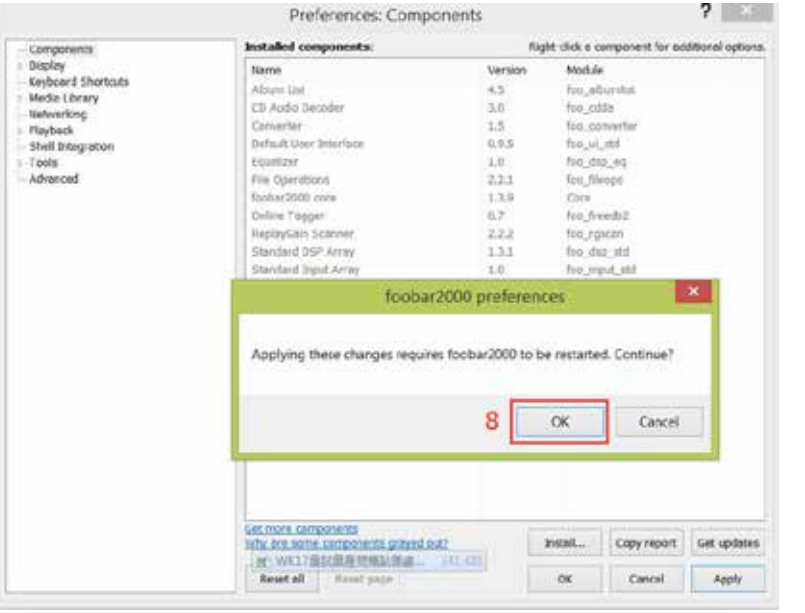
1. Install plugins according to the following steps highlighted from 1 to 8.



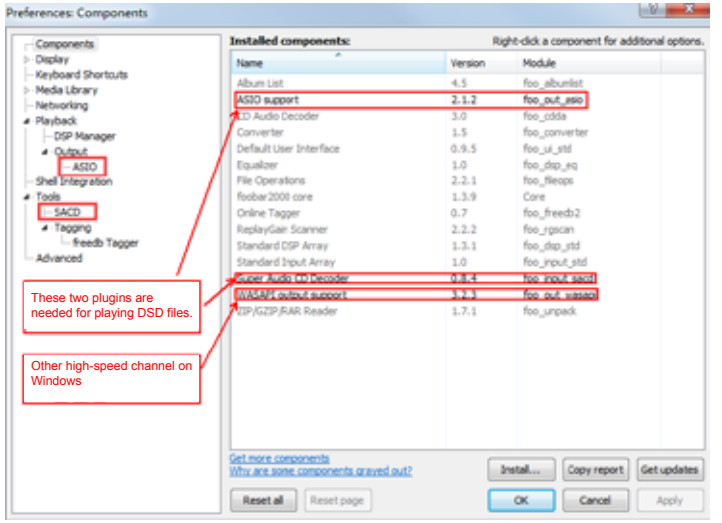

Preferences: Components
Components
Display
Keyboard Shortcuts
Media Library
Networking
Playback
Shell Integration
Tools
Advanced
3
Installed components:
Right-click a component for additional options.
Name
Version
Module
Get more components
Why are some components grayed out?
4
Install...
Copy report
Get updates
Reset all
Reset page
OK
Cancel
Apply


Preferences: Components
Components
Display
Keyboard Shortcuts
Media Library
Networking
Playback
Shell Integration
Tools
Advanced
Installed components:
Right-click a component for additional options.
Name
Version
Module
Get more components
Why are some components grayed out?
Install...
Copy report
Get updates
Reset all
Reset page
OK
Cancel
7
Apply

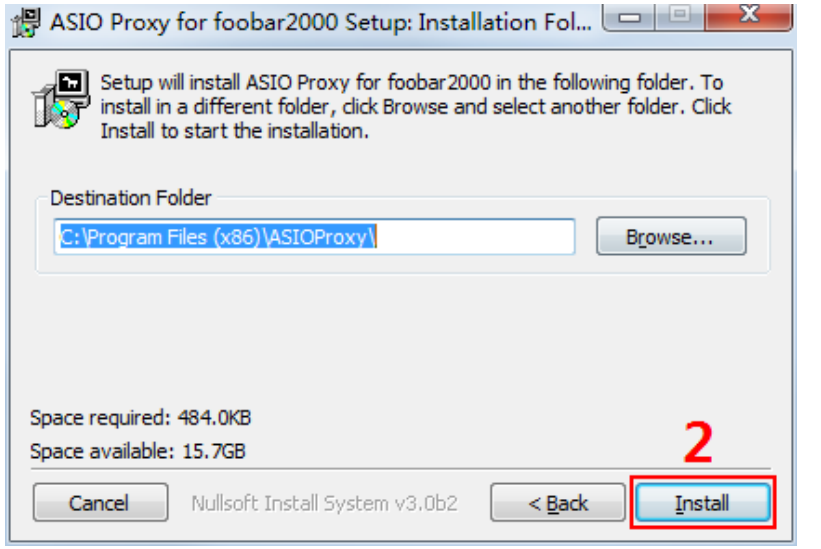

Preferences: Components
Install Component
FooBar2000
Search FooBar2000
Organize
New folder
Find the 3 unzipped files and select them
Favorites
Desktop
Recent places
Downloads
OneDrive
Homegroup
This PC
Desktop
Documents
Downloads
Name
Date modified
Type
5
filters
16/2/2014 13:33
File folder
src
25/8/2015 15:14
File folder
foo_input_sacd.fb2k-component
4/9/2015 15:58
foobar200
foo_input_sacd-0.8.4.zip
1/2/2016 18:21
WinRAR Z
foo_out_asio.fb2k-component
1/2/2016 17:04
foobar200
foo_out_ks.zip
1/2/2016 17:49
WinRAR Z
WASAPI.fb2k-component
1/2/2016 19:00
foobar200
File name:
foobar2000 components (fc
6
Open
Cancel
Reset all
Reset page
OK
Cancel
Apply


Preferences: Components
Components
Display
Keyboard Shortcuts
Media Library
Networking
Playback
Shell Integration
Tools
Advanced
Installed components:
Name
Version
Module
foobar2000 preferences
Applying these changes requires foobar2000 to be restarted. Continue?
8
OK
Cancel
Get more components
Why are some components grayed out?
Install...
Copy report
Get updates
Reset all
Reset page
OK
Cancel
Apply

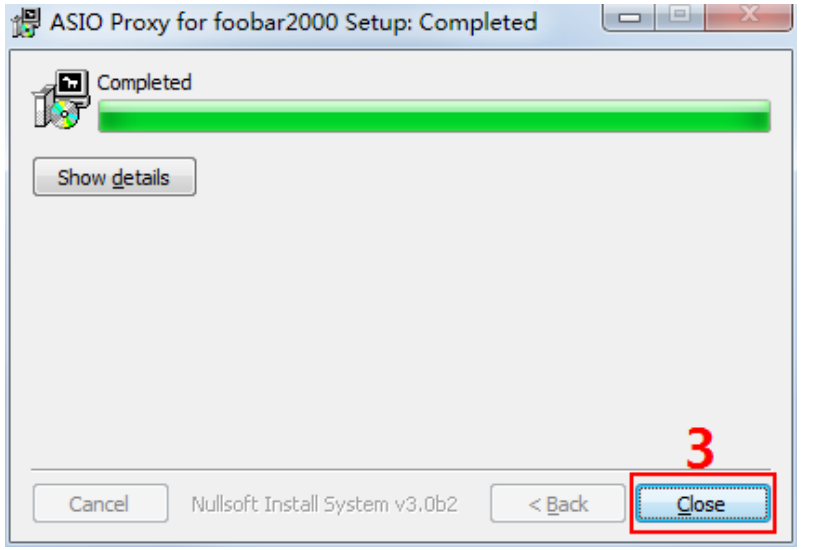
2. Restart Foobar2000 and go to the install location to confirm that the three plugins highlighted in the following figure are installed successfully. If so, you will see two more options on the left of the interface. (as shown in the figure below)



3. Install ASIO driver: double click ASIOProxyInstall-0.8.3.exe in the unzipped folder and then install the three components one by one.

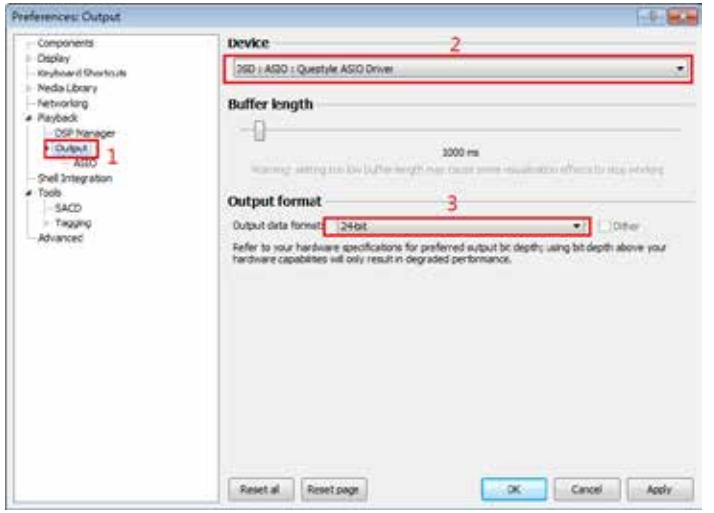


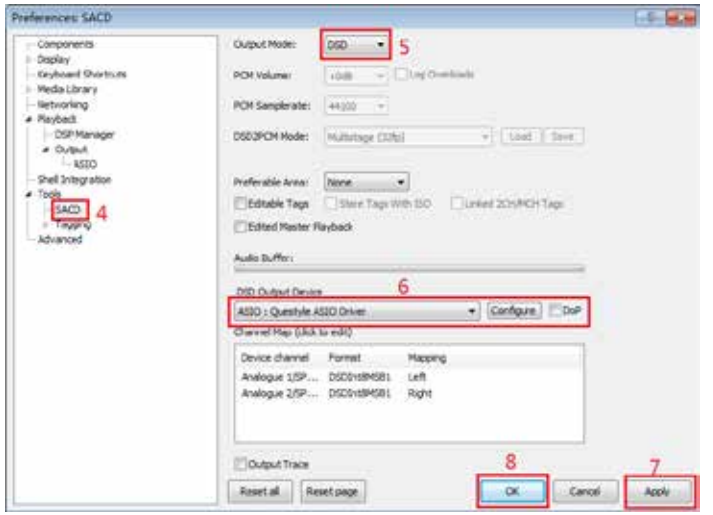
If you come to this step, you have completed all the preparations.



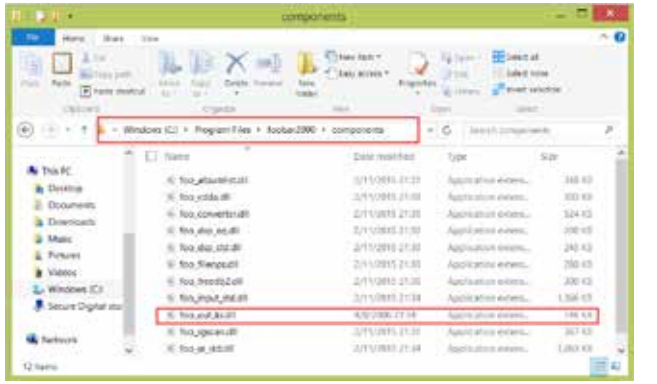
IV Setup the Software

1. Connect your device to a PC with a USB cable and finish the software setup according to the following steps highlighted from 1 to 9. Close and restart the software, then Foobar2000 is ready for playing PCM and DSD files.





2. In addition, installing plugins for Core Audio Stream channel requires copying the “foo_out_ks.dll” (highlighted in the figure below) to “components” under installation directory. Then restart the software and it is ready for playing files.



If the DSD files fail to play, please try the following:

1. Exit the antivirus software and reinstall the device driver. Maybe your device program is mistakenly deleted by the antivirus software.
2. Every time you finish setting Foobar2000, please restart the Foobar2000 software.

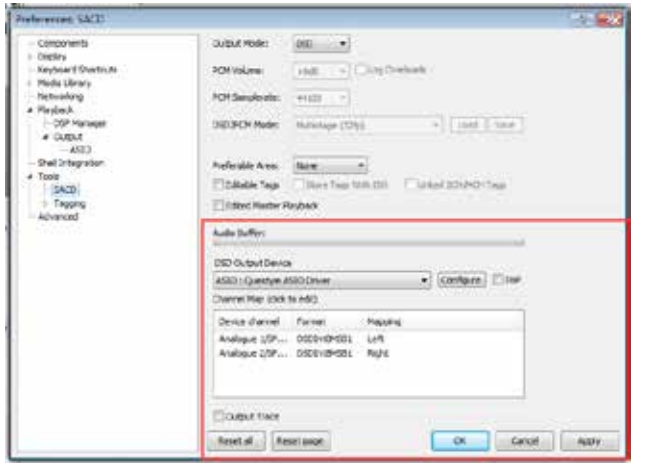


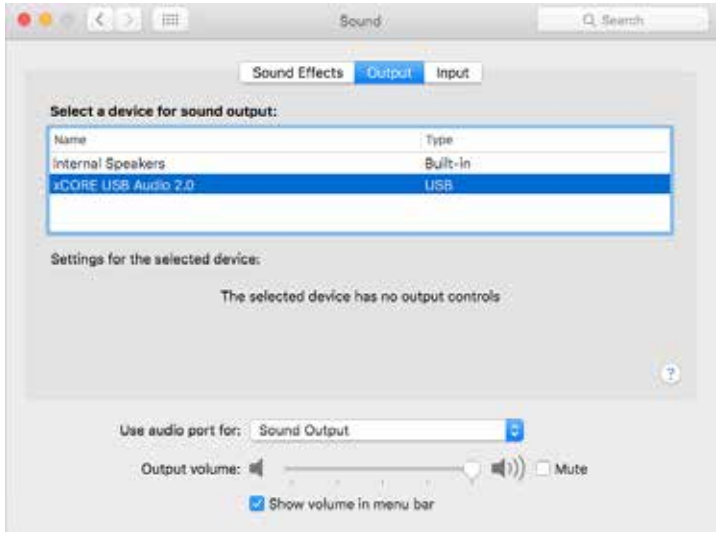
Fig. 1

3. Foobar plugins have different versions and their compatibility is different with different PC operation system. When the DSD files fail to play, please download another version of the plugin on Foobar website, then repeat the above installation steps. The installation succeeds until you see the window options in Fig.1.

Setup on Mac OSX

For Mac OSX, no special drivers are needed for later versions than OS 10.5.7. The performance of CMA Twelve, SHB2, CMA400i and CMA600i remains the same on Mac OS with the standard asynchronous transmission via USB.

Make sure your device is selected as the default output device in the system preferences. When you see the following interface after going to “System Preferences”-“Sound”(as shown below), your device is ready to work.



Cautions

1.Do not use your device in a hot or humid environment.
2.Unplug your device in lightning weather or during a long period without using.
3. Do not have your device covered by anything.
4. Only the specified or manufacturer-supplied power cord can be used for device.
5.Clean your device with a piece of dry cloth or the special detergent.
6. If your device fails to work, please contact your dealer or manufacturer.

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