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Thanks for selecting Questyle Audio CMA400i DAC with headphone amplifier .

CMA400i follows the design of Questyle Audio CMA600i DAC-headphone amplifier. The headphone amplification of CMA400i achieves low distortion of 0.00064% and ultra wide bandwidth up to DC-600kHz(+0,-3dB), working under super-current and Class A state only, all of which allows CMA400i have excellent performance at headphone amplification among the DAC/amp models.

CMA400i's USB input supports True DSD. Different from the commonly used DoP mode, CMA400i processes source data directly from PC and its hardware will switch to the True DSD channel when the system processes DSD signals, strictly following the process of SACD playback.

CMA400i supports pre-amp unbalanced (RCA) and balanced (XLR) outputs. RCA pre-amp output level is up to 4Vrms, and XLR up to 8Vrms, which can meet the requirements of most power amplifiers for output level. Volume control works in analog mode only. It is user-friendly for users of high-end active speakers.

CMA400i supports 4PIN balanced output. Four groups of pure Class A current mode amplification circuits drive headphones in full balanced mode, doubling the output voltage, quadrupling the output power against that of single ended mode. It can easily drive headphones of high impedance and low sensitivity rating, and is able to reveal full performance of your headphones.

1) Support USB, SPDIF, and Optical digital inputs.

2) USB port supports 44.1k-384k/16-32Bit PCM files, as well as Native DSD64, DSD128, DSD256, and DoP64, DoP128 decoding.

3) AK4490 DAC chip; DAC power supply voltage is up to +/-7V, producing huge dynamics.

4) Four groups of amplifiers working in current mode and Class A state only support 4PIN full balanced output and 6.35mm standard headphone output.

5) Black version sells abroad.

6) The new feature of Gain Control allows CMA400i to well match with different types of earphones or headphones.

Check List

CMA400i	1рс
Power Cord	1рс
CMA400i Driver CD	1рс
CMA400i User Manual	1pc

Front View



- ① Power switch
- ② DSD64 file indicator
- ③ DSD128 file indicator
- ④ DSD256 file indicator
- ⑤ Indicator for switching "Function" to "Headphone Amplifier" mode
- 6 Indicator for switching "Function" to "Pre-amplifier" mode
- ⑦ "Function" switch for "Headphone Amplifier" or "Pre-amplifier" mode
- 8 PCM 44.1kHz or 48kHz file indicator
- 9 PCM 88.2kHz or 96kHz file indicator
- 1 PCM 176.4kHz or 192kHz file indicator
- 1 PCM 352.8kHz or 384kHz file indicator
- 12 Indicator for no signals
- (13) USB input indicator
- OPT input indicator
- (15) COX1 input indicator
- 16 COX2 input indicator
- ① Indicator for error or headphone short-circuit protection
- 18 Input source switch
- 1 2.5mm balanced output jack(Note1)
- 2 6.35mm headphone jack
- 2 4 PIN full balanced output jack
- 2 Volume control



Rear View



- ① USB input
- ② OPT input
- ③ COX1 input
- ④ COX2 input
- ⑤ SPDIF output
- 6 Pre-amp output Adjust or Fix switch
- ⑦ Pre-amp balanced output for Right channel
- 8 Pre-amp unbalanced output for Left channel
- (9) Pre-amp unbalanced output for Right channel
- 1 Pre-amp balanced output for Left channel
- 220V/110V voltage switch (Please make sure the indicated voltage is in accordance with the local voltage)
- 12 AC power supply

Bottom View



①②③④ Current Mode Amplifier Gain Control switch for Left/Right channel. When you switch it to STANDARD, the Gain is about 2.47; when you switch it to LOW, the Gain is almost 1.1.

How to Match with CMA400i

1 Audio Sources

CMA400i has USB, OPT and SPDIF inputs. It can be connected to different kinds of audio devices, such as music players, computers, CD players and so on. To present the best performance, we recommend using quality audio device to match with CMA400i.



2 CMA400i has a 2.5mm full balanced headphone jack, a 6.35mm headphone jack and a 4PIN balanced headphone jack. It is easy for CMA400i to drive most headphones.



NOTE

1) Headphone jacks on the front panel include a 2.5mm full balanced headphone jack, a 6.35mm jack and a 4PIN balanced headphone jack. You are NOT allowed to plug in all of the three jacks at the same time.

2) CMA400i has DC output protection. If your CMA400i fails to work properly, it will cut off the output automatically to protect your headphones.

3) CMA400i has short-circuit protection for headphone output, which will be enabled under the following two circumstances: ①your headphone is plugged into the 6.35mm jack but not to the end of it. ②your headphone is plugged into the 2.5mm full balanced headphone jack but not to the end of it, or the headphone doesn't fit in with the signal of this jack (refer to the User Manual for signal details). When the short-circuit protection enables, CMA400i will make a warning sound with the ERROR indicator on, so you need to unplug the headphone, switch off CMA400i and switch it back on, and then it is ready for normal use .

3 CMA400i can be used as a pre-amp only. It can drive various active speakers.



NOTE

1) In this case, the "Function switch" must be moved to "DAC".

2) You can use \mathcal{T} (1) balanced outputs or (8) (9) unbalanced outputs to connect with the left and right channels of your active speaker.

4 When CMA400i is used as a DAC and pre-amp, it can improve the performance of traditional Hi-end audio systems.



NOTE

1) In this case, the "Function switch" must be moved to "DAC".

2) You can use (7) (10) balanced outputs or (8) (9) unbalanced outputs to connect with the left and right channels of your power amplifier.

Current Mode Amplification Technology

(Global PCT Patent No: PCT/CN2014/075775)

Current Mode Amplification refers to a Current Mode Audio Amplifier. It is a state-of-the-art technology of audio amplification based on Current Mode and discrete components. This Current Mode Audio Amplifier features the use of transistors to amplify, with all discrete structure designed in, to wit: voltage input and output, while the core amplification takes place in the current domain operating in a pure class A state. It is completely different from the traditional voltage mode amplifier in the structure of the amplification circuit. Capacitors in between the transistors, which affects speed and bandwidth, operate under ultra-low impedance, so it not only eliminates the TIMD, but also achieves large bandwidth (500kHz at full power) and ultra low distortion (0.0002%). The Current Mode Amplification technology can be used for amplifiers of any power level (10mW-2000W) and of any size (thousands of square centimeters for some professorial amplifiers).



PC System Requirements

1) Operation System

CMA400i's 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

CMA400i is 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. CMA400i 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 CMA400i.

Install CMA400i Driver on Windows OS

Your CMA400i can be recognized by PC after installing the CMA400i Driver on Windows OS. We take Win7 64bit OS for an example to show the Driver installation.

1)Connect your CMA400i to its power supply and switch it on;

2)Connect your CMA400i to PC with a USB cable;

setup.exe Driver Setup

3)Put the provided CMA400i Driver disc into your PC and open the folder labeled "CMA400i Driver/For Windows 7, 8, 8.1 and 10/" and then double click

"Setup.exe".

4) Then follow the steps below:

1

Click "Next"



Click "Install" (Default install location is C drive)



Installation will take 3 or 5 minutes



Installation is completed, click "Next"

stallation Complete		a
Setup was completed success	stully.	
Execute: regsvr32 /s "C:\Pr Create shortcut: C:\Progra Create shortcut: C:\Progra	rogram Files\Questyle\Questyle_USB_A mData\Microsoft\Windows\Start Menu\ mData\Microsoft\Windows\Start Menu\	udio_Driver\quest Programs\Questyle Programs\Startup\
		and the second sec
Preinstalling drivers. This may take some time to	complete. Please wait	
Preinstalling drivers. This may take some time to	complete. Please wait	
Preinstalling drivers. This may take some time to Preinstallation was success	complete. Please wait ============ ful. Click Next to continue. =================	[
Preinstalling drivers. This may take some time to ====================================	complete. Please wait	[

Click "Finish" to exit the installation



5)Restart your PC and the CMA400i 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 CMA400i. Besides, CMA400i supports 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.

CMA400i 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 CMA400i 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 CMA400i output, which is because the system has opened the Core Audio Stream channel for CMA400i and the audio data directly get to the DAC of CMA400i 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, QuickTime 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

WIN

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";

File Edit View Player	Tools Help	
000	Import	JRiver Media Center 20
	Acquire Images	
♦) — 0	Rip Disc	
Playing Now	Burn Disc	
Audio	Advanced loois	
Images	Send To	
Video	Library loois	
Television	Links	
Performer Store	Language	
Podcasts	Options Ctrl+O	MediaCenter
Playlists		
Drives & Devices	> c	
Services & Plug-ins	Welcome to	o JRiver Media Center
	Thank you for	r choosing JRiver. Read below to learn about the pr
Media Import	•	
Please select the 1 Import a single Allows you to as Configure Auto Provides a list of Run Auto-Impo Runs auto-Impo	type of search you want to folder id a single folder of conten -import f folders that the program w rrt Now rt now using your last settir	o use: t to your library. /Ill automatically stay synchronized with. ngs.

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

olders	
Add folders you would like the program to watch.	
	Add
	Remove
	Edit
Tasks	
Select any additional tasks that Auto-Import should perfo	orm.
Analyze audio for audio files	
Analyze audio for video files	
Build thumbnails	
Get cover art	
Get movie & TV info	
Ignore files previously removed from library	
Indate for external changes	
C opuate for external changes	



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 CMA400i to its power supply and switch it on;
- 2) Connect your CMA400i 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".



	Op	tions	_ □
Audio	Zone to configure: Player		
Burning CD, DVD & BD Encoding	Audio Device Questyle ASIO Driver [ASIO] Device settings		
R File Location	- Settings		
9	Questyle ASI	O Driver [ASIO]	
Device		Buffering	
Channel offset: 0		50 milliseconds	(recommended) 👻
τ	Questyle Audio Control Panel	×	ware buffers (recommended to prevent stutter)
Cha USB Streamin	Buffer Settings Volume Info		ouffering makes playback more skip resistant, but ncy (the time it takes for pause, seek, volume, DSP,
Safe		~	
Vo			
ASI - ASIO Buffer S	ize		trol Panel
Vo ASI ASIO Buffer S Plei Auto	ize	~	trol Panel ly most significant 24-bits (Lynx, etc.) in DoP format

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.)

)		Options		_ 🗆 🗡
Audio	Zone to configure: Player			*
Burning				^
OCD, DVD & BD	✓ Questyle ASIO Driver [ASIC	1		
Encoding	Device settings			
File Location	* Settings			
	DSP & output format			
File Types	✤ Bitstreaming: Yes (DSD)			
		DSP Studio		
Output Format Volume Leveling Adaptive Volume Equalizer	Sound can be output in any output or high sample rate	y format. For example, you can listen to an audio s require a sound card capable of these modes.	CD in 5.1 surrou	ind at 32-bit / 192 kHz. Adva
Effects	Output Encoding (more in	nfo)	Channels (m	ore info)
Headphones				
Tempo & Pitch	None	×	Channels:	Source number of channels
Room Correction	Sample rate (more info)		Mixing:	
Convolution	Sample face (more mic)			
Parametric Equalizer 2	Click in the output colur rate. Picht-click to set a	nn to select a sample rate for each input sample		
Analyzer	Tate. Right-click to set a	in at once.		Move center to front L/R
	Input	Output		Detect starses courses in
	Less than 44,100 Hz	No change		Detect stereo sources in
	44,100 Hz	No change	Subwoofer	(more info)
	48,000 Hz	No change		1 1 1 1 10
rocessed in order listed (drag	g to 88,200 Hz	No change	when sou	rce has no subwoofer (CD au
reorder)	96,000 Hz	No change	includes a	subwooler.
Manage Plug-ins	1/6,400 Hz	No change		
	103000			

7) Select "Custom" under "Bitstreaming: Yes(DSD) "

	Options	□ ×
Audio	Zone to configure: Player	~
Burning	- Audio Device	^
CD, DVD & BD	Questyle ASIO Driver (ASIO)	1
Encoding	Device settings	
Pile Location	- Settings	
File Types	DSP & output format	
	✓ Bitstreaming: Yes (DSD)	
General	Vone (recommended) ended)	
Handheld	+DMI re synchronization: None	
🖸 Images	S/PDIF f disk (not zone-specific)	
Library & Folders	□ ✓ DSD useful for HDMI audio)	
Media Network	* Tra Custom	
Podcast	 Switch tracks: Cross-fade (aggressive) - 4s 	
	Do not play silence (leading and trailing)	
Remote Control	Use gapless for sequential album tracks	
Services		
5tartup	✓ Seek: Smooth (normal)	
Television	✓ Stop: Fadeout (fast)	
Theater View	✓ Pause: Fade (fast)	
Troo & View	Jump behavior: Forward 30 seconds, backward 10 seconds	
nee of view	* Volume	
Video	✓ Volume mode: System Volume	
	Maluma Destastion	•
	NOTE: Changes take effect once playback is stopped	
and the second second	OV Co	ncal Holo
the four segren tiele	UK Ca	Help

8) Tick "DSD" and then click "OK".



Save and exit. The setup is completed.

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

1:	13/3:55 - 1412 kbps 6 of 385 + + + + + + + + + + + + + + + + + + +
	Audio Path: Direct Input: 44.1kHz 16bit 2ch from source format FLAC
1	
	Output: 44.1 kHz 32bit 2ch using Core Audio (direct connection) Click here to learn more about Audio Path
1 2 3 4 511 Name Anist	Output: 44.11kHz 32bit 2ch using Core Audio (direct connection) Click here to learn more about Audio Path Album Rating Genre Trac. Durat. Bitrate
1 2 3 4 S 1 ⁺¹ Name Artist 1 3 Grove Armada - Chicago 01 2 Santana - Ope Como Va 03 03 0 Armada - Chicago 01	Output: 44.16Hz 32bit 22h using Core Audio (direct connection) Click here to learn more about Audio Path Album Album Baing Genre Trac. Durati Birate File Ty Of core Audio Path Saco english 7.20 594.4 dot Jacz 64.166 6022 flag Users and B. SACO Matt 54.22 594.4 dot Jacz 41.6 6022 flag 54.24 dot

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):

🔍 i 🕞 🐘 = i	F	ooBar2000			_ □	×
File Home Share V	iew				^	
Copy Paste	Move Copy to * Cot to *	New item • New folder	Properties	Open - Select a Edit Select a History Invert s	all none selection	
Clipboard	Organize	New	Open	Sele	ct	
🔄 🕘 🕤 🕇 📕 🕨 FooBa	ar2000		~ C	Search FooBar2	2000	P
☆ Favorites	Name	Date mo	odified T	уре	Size	
Desktop	WASAPI.fb2k-component	1/2/201	6 19:00 fo	oobar2000 Comp	163 KB	
laces 😓 Recent places	5 foobar2000_v1.3.9.exe	1/2/201	6 16:56 A	pplication	3,805 KB	
🐌 Downloads	foo_out_ks.zip		6 17:49 V	VinRAR ZIP 压缩	77 KB	
	ioo_out_asio.fb2k-compon	ient 1/2/201	1/2/2016 17:04 foob		183 KB	
痻 OneDrive	foo_input_sacd-0.8.4.zip		1/2/2016 18:21 WinRAR ZIP		1,632 KB	
📢 Homegroup						
ik This PC						
📜 Desktop						
📗 Documents 🗸 🗸						
5 items					8	2

After the unzipping, you will see the following:

N 🖸 N =	Fo	oBar2000				х
File Home Share Vi	ew					^ 🕐
Copy Paste shortcut	Move Copy to * to *	New item • New folder	Properties	 Select all Select no Select no Select select 	ne lection	
	r2000	INEW		earch FooRar20	00	Q
★ Favorites	Name	Date mod	dified Type		Size	
Desktop	WASAPI.fb2k-component	1/2/2016	19:00 foobar	2000 Comp	163 KB	
laces 😓 Recent places	readme.txt 4/9		15:06 Text D	ocument	7 KB	
🐌 Downloads	🐞 foobar2000_v1.3.9.exe	1/2/2016	16:56 Applic	ation	3,805 KB	
	🖀 foo_out_ks.zip	1/2/2016	17:49 WinRA	R ZIP 压缩	77 KB	
neDrive 🏠	foo_out_ks.dll	4/8/2006	21:54 Applic	ation extens	146 KB	
	ig foo_out_asio.fb2k-compone	nt 1/2/2016	17:04 foobar	2000 Comp	183 KB	
📢 Homegroup	foo_input_sacd-0.8.4.zip	1/2/2016	18:21 WinRA	R ZIP 压缩	1,632 KB	
	www.input_sacd.fb2k-compo	nent 4/9/2015	15:58 foobar	2000 Comp	1,272 KB	
💐 This PC	🗒 ASIOProxyInstall-0.8.3.exe	4/9/2015	16:02 Applic	ation	278 KB	
📜 Desktop	👗 src	25/8/2015	5 15:14 File fol	der		
📗 Documents 🗸	🗼 filters	16/2/2014	4 13:33 File fol	der		
11 items						-

II Install Foobar2000 V1.3.9

1. Double click 🕲 foobar2000_v1.3.9.exe to install Foobar2000, and then click "Next".

😻 foobar2000 v1.3.9 Setup	
M	Welcome to the foobar2000 Setup
FB2K	This wizard will guide you through the installation of foobar2000 audio player.
	Click Next to continue.
	Next > Cancel

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)

100bar2000 v1.5.9 Setu	Channe Community
FBZK	Choose Components Choose which features of foobar2000 you want to install.
Check the components you install. Click Install to start t	want to install and uncheck the components you don't want to the installation.
Select the type of install:	Full
Or, select the optional components you wish to install:	Free Goobar 2000 ▷ · I Optional features ▷ · I Shortcut icons
	Description
Space required: 10.6MB	Position your mouse over a component to see its description.
ISIS v2	
	< Back Install Cancel

😻 foobar2000 v1.3.9 Setup	
Please wait while	′oobar2000 is being installed.
Updating registry	
Extract: foo_unpack.dll Extract: foo_freedb2.dll Output folder: C:\Program Files (x86)\foobar2 Create shortcut: C:\Users\Public\Desktop\foo Output folder: C:\Program Files (x86)\foobar2 Create shortcut: C:\Program Files (x86)\foobar2 Delete file: C:\Program Files (x86)\foobar2000 Extract: uninstall.exe Updating registry	000 bar2000.lnk 000 lindows\Start Menu\Programs\foobar2 000 \\installer.ini.bak
NSIS v2	< Back Next > Cancel

7. Click "Finish" and run Foobar2000.



III Install Plugins

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

😔 foobar2000 v1.3.9			
File Edit View Playback Default Playi Artist/album	Library Help Album List Search Configure	2 / track artist	Dura
Opens the Media Library Prefere	nces page.		

Components 3	Installed components:	Ri	ght-click a component for additional		
Display	Name	Version	Module		
Keyboard Shortcuts	Album List	4.5	foo albumlist		
Media Library	CD Audio Decoder	3.0	foo_cdda		
Networking Navback	Converter	1.5	foo_converter		
Shell Integration	Default User Interface	0.9.5	foo_ui_std		
Tools	Equalizer	1.0	foo_dsp_eq		
Advanced	File Operations	2.2.1	foo_fileops		
	foobar2000 core	1.3.9	Core		
	Online Tagger	0.7	foo_freedb2		
	ReplayGain Scanner	2.2.2	foo_rgscan		
	Standard DSP Array	rray 1.3.1 foo_dsp_std			
	Standard Input Array	1.0	foo_input_std		
	ZIP/GZIP/RAR Reader	1.7.1	foo_unpack		
			4		
	Get more components Why are some components grayed out	it?	Install Copy report Get u		



Components	Installed components:	Installed components: Right-click a component for additional of		
Display	Name	Version	Module	
Keyboard Shortcuts	Album List	4.5	foo albumlist	
Media Library	CD Audio Decoder	3.0	foo_cdda	
- Networking . Playback	Converter	1.5	foo_converter	
Shell Integration	Default User Interface	0.9.5	foo_ui_std	
Tools	Equalizer	1.0	foo_dsp_eq	
Advanced	File Operations	2.2.1	foo_fileops	
	foobar2000 core	1.3.9	Core	
	Online Tagger	0.7	foo_freedb2	
	ReplayGain Scanner	2.2.2	foo_rgscan	
	Standard DSP Array	1.3.1	foo_dsp_std	
	Standard Input Array	1.0	foo_input_std	
	ZIP/GZIP/RAR Reader	1.7.1	foo_unpack	
	(unknown - please apply changes to load)	(unknown)	foo_input_sacd	
	(unknown - please apply changes to load)	(unknown)	foo_out_asio	
	(unknown - please apply changes to load)	(unknown)	foo_out_wasapi	
	Get more components			
	Get more components Why are some components grayed out?	In	stall Copy report Get up	

Preferences: Components

? ×

Components				
Display	Name	Version	Module	
Keyboard Shortcuts	Album List	4.5	foo_albumlist	
Networking	CD Audio Decoder	3.0	foo_cdda	
Playhack	Converter	1.5	foo_converter	
Shell Integration	Default User Interface	0.9.5	foo_ui_std	
Tools	Equalizer	1.0	foo_dsp_eq	
dvanced	File Operations	2.2.1	foo_fileops	
	foobar2000 core	1.3.9	Core	
	Online Tagger	0.7	foo_freedb2	
	ReplayGain Scanner	2.2.2	foo_rgscan	
	Standard DSP Array	1.3.1	foo_dsp_std	
	Standard Input Array	1.0	foo input std	
	fooba	res foobar2000 to b	e restarted Continue?	×
	fooba	res foobar2000 to b	e restarted. Continue?	×
	fooba Applying these changes requi	res foobar2000 to b	e restarted. Continue? OK Cancel	×
	fooba Applying these changes requi	res foobar2000 to b	e restarted. Continue?	×
	fooba	res foobar2000 to b	e restarted. Continue? OK Cancel	×
	fooba Applying these changes requi Get more components Why are some components graved 时以17世纪4月19世纪年期19世纪日期1	eres foobar2000 to b 8	e restarted. Continue? OK Cancel Install Copy report	× Get update

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)

Components	Installed components:	Ri	ght-click a component for a	ditional optio
Display	Name	Version	Module	
 Keyboard Shortcuts 	Album List	4.5	foo albumiet	
• Media Library	ASIO support	212	foo out acio	
Networking	CD Audio Decoder	2.1.2	foo_odd_asio	
Playback	Converter	1 5	foo_cooxerter	
DSP Manager	Default Llear Interface	1.5	foo_uii.atd	
⊿ Output	Equalizer	1.0	foo_dr_stu	
Chall Tabasah	Equalizer	1.0	foo_dsp_eq	
Taela	File Operations	1.2.0	Too_neops	
- FOOIS	Option Tenner	1.5.9	Core for for dealer	
4. Tagging	Dealey Caia Casanan	0.7	foo_freedb2	
freedb Tanger	ReplayGain Scanner	2.2.2	foo_rgscan	
- Advanced	Standard DSP Array	1.5.1	foo_dsp_std	
/	Standard Input Array	1.0	too_input_sta	
	Suber Audio CD Decoder	0.8.4	foo input saco	
These two plugins are	WASAPI OUTDUT SUDDORT	3.2.3	foo out wasabi	
needed for playing DSD files.	21P/GZIP/RAR Reader	1.7.1	roo_unpack	
Other high-speed channel on				
Windows				
	Get more components		Converse t	Caturda
			Install CODV report	LIGET LIDOGA
	why are some components grayed out	<u> </u>	copyrepore	occupud

3. Install ASIO driver: double click PASIOProxyInstall-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.

🛱 ASIO Proxy for foobar2000 Setup: Installation Fol 💶 💷 🗮 🌉
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)\ASIOProxy\ Browse Browse
Space required: 484.0KB Space available: 15.7GB 2
Cancel Nullsoft Install System v3.0b2 < Back Install

🛱 ASIO Proxy for foobar2000 Setup: Com	pleted	
Completed		
Show <u>d</u> etails		
		3
Cancel Nullsoft Install System v3,0b2	< <u>B</u> ack	Close

IV Setup the Software

1. Connect your CMA400i 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.

Components	Device	2
 Display Keyboard Shortcuts 	DSD : ASIO : Questyle ASIO D	iver 🗸
 Media Ubrary Networking Playback Output: Shell Integration Tools SACD SACD Advanced 	Buffer length Warning: setting too low bu Output format Output data format Qutput data format Refer to your hardware specific hardware capabilities will only re	1000 ms ffer length may cause some visualization effects to stop working. 3 T Dither ations for preferred output bit depth; using bit depth above your suit in degraded performance. OK Cancel Apply

Preferences: SACD				? 💌
- Components	Output Mode:	DSD - 5		
Keyboard Shortcuts	PCM Volume:	+0dB v Log Overload	ls	
- Networking	PCM Samplerate:	44100 ~		
- DSP Manager - Output	DSD2PCM Mode:	Multistage (32fp)	▼ Load Save	
- Shell Integration	Preferable Area:	None		
A Tools	Editable Tags	Store Tags With ISO	inked 2CH/MCH Tags	
> Tagging Advanced	Edited Master F	Playback		
	Audio Buffer:			
	DSD Output Devic			
	ASIO : Questyle	ASIO Driver	Configure DoP	
	Channel Map (click	: to edit)		
	Device channel	Format Mapping		
	Analogue 1/SP Analogue 2/SP	. DSDInt8MSB1 Left . DSDInt8MSB1 Right		
	Output Trace		8	_7
	Reset all Re	eset page	OK Cancel	Apply

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.

N I 🕞 N = I	cc	omponents		_ 🗆 🗙
File Home Share Vie	w			^ ()
Copy Paste Shortcut	Move Copy to *	New item • Casy access • Properti	Image: Open - Image: Select Image: Delta Image: Select	all none selection
Clipboard	Organize	New	Open Sele	ct
🛞 🌛 👻 🕆 📙 « Windo	ws (C:) Program Files fooba	ar2000 ⊁ components	 ✓ C Search comport 	nents P
^ [Name	Date modified	Туре	Size ^
This PC	foo_albumlist.dll	2/11/2015 21:31	Application extens	348 KB
Documents	foo_cdda.dll	2/11/2015 21:30	Application extens	303 KB
Downloads	foo_converter.dll	2/11/2015 21:30	Application extens	524 KB
Music	foo_dsp_eq.dll	2/11/2015 21:30	Application extens	200 KB
Dictures	foo_dsp_std.dll	2/11/2015 21:30	Application extens	245 KB
Videos	foo_fileops.dll	2/11/2015 21:30	Application extens	288 KB
Windows (C)	foo_freedb2.dll	2/11/2015 21:30	Application extens	300 KB
Secure Digital rto	foo_input_std.dll	2/11/2015 21:34	Application extens	1,366 KB
ap secure original stor	foo_out_ks.dll	4/8/2006 21:54	Application extens	146 KB
Network	foo_rgscan.dll	2/11/2015 21:31	Application extens	367 KB
V	foo_ui_std.dll	2/11/2015 21:34	Application extens	1,063 KB 🗸 🗸
12 items				800 800

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

1. Exit the antivirus software and reinstall the CMA400i Driver. Maybe the CMA400i program is mistakenly deleted by the antivirus software.

2. Every time you finish setting Foobar2000, please restart the Foobar2000 software.





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 CMA400i remains the same on Mac OS with the standard asynchronous transmission via USB.

Make sure your CMA400i 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 CMA400i is ready to work.

	Sound	Q Search
Select a device for sound outp	Sound Effects Output Input	
Name	Туре	
Internal Speakers	Built-in	
xCORE USB Audio 2.0	USB	
Settings for the selected device: The se	: elected device has no output controls	
Settings for the selected device The s	: elected device has no output controls	3
Settings for the selected device The su Use audio port for:	: elected device has no output controls Sound Output	? •

Specification

Headphone Amplifier Section		
Gain	7.8dB(2.47,Standard)/0.83dB(1.1,Low)	
Max Output Power(Po)	106mW@300Ω; 650mW@32Ω(6.35mm headphone jack) 418mW@300Ω; 1200mW@32Ω(balanced headphone jack) To enhance the reliability of CMA400i, Questyle designed a power-limited circuit used for low impedance, the output power is limited to 410mW @32Ω (6.35mm headphone jack) 430mW @32Ω (balanced headphone jack)	
THD+N	0.0013% @1kHz, Po=100mW, 300Ω	
	0.0016% @1kHz, Po=50mW, 32Ω	
SNR	108 dB, non-weighting	
Frequency Response	DC-100kHz(+0, -0.7 dB); DC-600kHz(+0, -3dB)	
Input	Internal DAC output	
Output	A 6.35mm headphone jack, a 4PIN balanced headphone jack and a 2.5mm full balanced headphone jack	
DAC and Pre-Amp Output Section		
Signal	SPDIF input and output: PCM 44.1-192K/16-24bit standard USB: 44.1K-384K/16-32bit PCM and DSD Native DSD64, DSD128, DSD256	
PC OS to Match USB Input	Win XP, Vista, Win7, Win8, Win10 and MAC OS	
Digital Input & Output	SPDIF input and output, Optical input, USB type B input	
Core Audio Stream supported by USB	WASAPI, ASIO, KS	
Analog Output	Balanced (XLR) and single ended unbalanced (RCA)	
Max Analog Output Amplitude	Balanced (XLR): 6.8 Vrms; unbalanced (RCA): 3.4 Vrms	
THD+N	RCA: < 0.0009%; XLR: < 0.0009%	
SNR	RCA: >110dB; XLR: >113dB (non-weighting)	
Whole Device		
Voltage	100-120V or 220-230V switchable	
Power Consuming	17W	
Dimension	279*189*55 mm	

Cautions

1.Do not use your CMA400i in a hot or humid environment.

2.Unplug your CMA400i in lightning weather or during a long period without using.3. Do not have your CMA400i covered by anything.

4. Only the specified or manufacturer-supplied power cord can be used for your CMA400i.

5. Clean your CMA400i with a piece of dry cloth or some alcohol (alcohol level \geq 95%).

6. If your CMA400i fails to work, please contact your dealer or manufacturer.

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安全注意事项

1、请勿在高温、潮湿的环境中使用本设备。

- 2、在雷电天气或长时间不用时,请拔掉设备插头。
- 3、请勿使用物体覆盖本设备。

4、只能使用说明书中指定的电源线类型或制造商提供的电源线(如电源适配器)。

5、请用干布或工业酒精(酒精浓度≥95%)清洁。

6、如机器出现故障,请联系代理商或制造商维修。

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