#### Super Pro DAC 707 (2009 Version)

#### **User Manual**

Congratulations on purchasing the new Super Pro Dac 707. This upgraded version features many improvements over the previous version. Just some of them include:

- \* A new, stronger and more attractive case
- \* Various circuit tweaks
- \* Rhodium plated RCA sockets

Featuring an I2S and USB input, the DAC 707 is sure to be

When connected up to a PC via its USB port, the DAC 707 converts the digital data stream from the USB input directly into I2S and straight onto the DAC chip. This bypasses the inferior SPDIF digital audio data stream format entirely and should almost eliminate jitter, thereby improving sound quality.

#### **FEATURES**

- Cirrus CS-8416 Receiver chip,
- Cirrus CS-4398 D/A converter chip (24-192KHZ)
- Dual LT1364C OPAMPS for analog output circuit
- Optical digital toslink input
- Coaxial Digital Input
- I2S Input
- USB input (CM-108 USB receiving chip)





### **Quick SETUP Guide**

The DAC 707 is capable of receiving digital audio in four different Formats:

- Via its digital coaxial (RCA) input
- Via its optical toslink input
- Via its I2S input
- Via its USB input

The source of this digital audio could be a CD player, CD transport, DVD player, DAB radio receiver, most PCs / Macs and many, many other gadgets which output a digital audio signal.

### OPERATION

Please switch OFF or disconnect power to all devices in your system before making input and output connections to the DAC 707.

Plug the supplied 12v PSU into the DAC (don't switch on the mains just yet)

Connect a Digital INPUT from your source using any or all of the following:

- Digital coaxial (RCA) input
- Optical toslink input
- I2S input
- USB input

Via an interconnect cable, connect the L&R RCA stereo outputs from the DAC into the RCA input jacks of an amplifier.

Turn on mains to power up the DAC and switch on the other attached audio components.

Some of the LEDs on rear panel of the DAC will illuminate to indicate power and input signal.

Playback audio on the digital playback device. Enjoy the music..





Using the DAC 707 with a PC or Mac through the USB input

#### Please note:

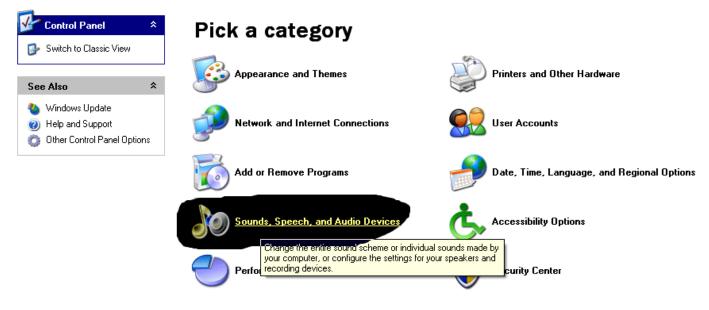
When the DAC is connected up to a computer via USB, half its power requirements are met by the USB port and half by the supplied 12v DC power supply.

If the DAC is only plugged into the USB and the 12v DC power supply is not connected, some LED lights on the DAC will illuminate but no sound will come from the DACs analogue RCA outputs.

Upon plugging the DAC 707 into a PC, it should automatically be recognised.

**Using Windows XP**, to get the most out of the DAC, I personally set my computer up as follows to avoid windows beeps and annoying web audio:

Go into the windows "Control Panel"



Sounds and Audio Devices Properties	
Volume Sounds Audio Voice Hardware	
Devices:	
Devices: Name Audio Codecs Sound, vid Capacy Audio Drivers Media Control Devices Capacy Video Capture Devices Sound, vid Capacy Video Capture Devices Sound, vid USB Audio Device Device Properties Manufacturer: (Generic USB Audio) Location: Location 0 (C-Media USB Headphone Set ) Device Status: This device is working properly. Iroubleshoot Properties	
OK Cancel Apply	
See Also       Sounds and Audio Devices Properties         Advanced V       Devices:         Troubleshooter       Addio Codecs         Sound       Addio Codecs         DVD       Media Control Devices         Video Codecs       Video Capture Devices         Video Codecs       Video Codecs         Video Codecs       Video Codecs         Video Codecs       Video Codecs         Video Codecs       USB Audio Device         Device Properties       Manufacturer: (Generic USB Audio) Location: Location 0 (C-Media USB Device Status: This device is working         Iroublesho       Iroublesho         Device Status: This device is working       Iroublesho	Voice Hardware
	Properties

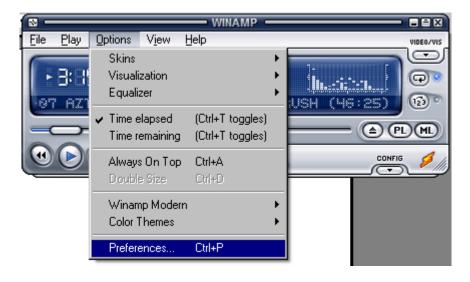
USB Audio Device Properties	? ×
General	
USB Audio Device	
Status: Driver is disabled but currently active	
O Use audio features on this device	
Do not use audio features on this device	
Do not map through this device	
<u>S</u> ettings	
OK Cancel Appl	,

USB Audio Device Properties		? ×
General Properties Driver		
Multimedia devices Audio Devices USB Audio Device Mixer Devices Mixer Devices USB Audio Device Line Input Devices		
	Properties	
	ОК С	Cancel



#### Reboot computer

If you are running Winamp, go to options->Preferences->Plugins : output->Nullsoft Directsound output->C-Media headset->Play around with the "Buffering" section and "Other" sections.



🚀 Winamp Preferences		×
File Types     Playlist     Titles     Playlist     Titles     Playback     Video     Localization     Global Hotkeys     Jump To File     Missing Files     Shell Options     ML Options Media Library Skins     Classic Skins     Modern Skins Plug-ins     Input     Output     Visualization     DSP/Effect     General Purpose     Media Library     Portables     Visualize	Output plug-ins         The plug-in selected below determines how Winamp plays audio. If you select a plug-in, Winamp will use it (starting with the next item played) for audio output.         Nullsoft Disk Writer v2.14 [out_disk.dll]         Nullsoft DirectSound Output v2.47 (d) [out_ds.dll]         Nullsoft WaveOut Output v2.11 (d) [out_wave.dll]         Output v2.11 (d) [out_wave.dll]         Get plug-ins         Configure       About	

💋 DirectSound output settings	×
Device Buffering Fading Other Status	
02: USB PnP Sound Device	Refresh
01: Primary Sound Driver	
02: USB PnP Sound Device (may cause problems with proken grivers)	
Create primary buffer (for old soundcards, fixes sound quality problems)	
Device Info Certified: Yes, emulated: No Supports sample rates from 100 Hz to 192000 Hz (continuous Hardware memory: N/A Hardware mixing: supported, 64 free streams (65 max) C-M Speaker setup: Stereo	2.7
Note that info above is what your soundcard driver reports; it m match actual hardware specs in certain cases.	ight not
FAQ: "01: Primary Sound Driver" refers to preferred sound devi in Windows control panel.	ce selected
Note: most of the settings take full effect after restarting playback	<. Apply
v2.47 (d) Reset all OK	Cancel

Choose the "C-Media USB Headset" option (I'm using a driver called USB pnP Sound Device on my computer)

Ø DirectSound output settings		×	
Device Buffering Fading Other Status			
Buffer length:	Reset to default values		
1986 ms			
Prebuffer on start / seek / underrun:			
		-	
Buffer-ahead on track change:			
500 ms 500 ms Longer buffer gives better skipping (underrun) CPU usage when starting (Winamp decodes a buffer is full). Big buffer also causes EQ/DSP s	s fast as possible until the etting changes to lag.		
Prebuffer determines how much data to eat be ecommended values are 500-1000ms, higher Enable CPU usage control (experimental, k when starting/seeking, even with very big	values may cause problem eeps CPU usage fluid		
ote: most of the settings take full effect after r 2.47 (d)	estarting playback. App set all OK Cano		
Silence remover	ning / end of track		
Volume control			
Enable volume control	Smooth volume ch	langes	
Volume control: Linear		-	
Map 0% to - 100 🚔 dB	🗖 Logarithmic I	fades	
Note: most of the settings take full ef	fect after restarting p	layback.	Apply

# This is not an official PopPulse User Manual. It's the work of:

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