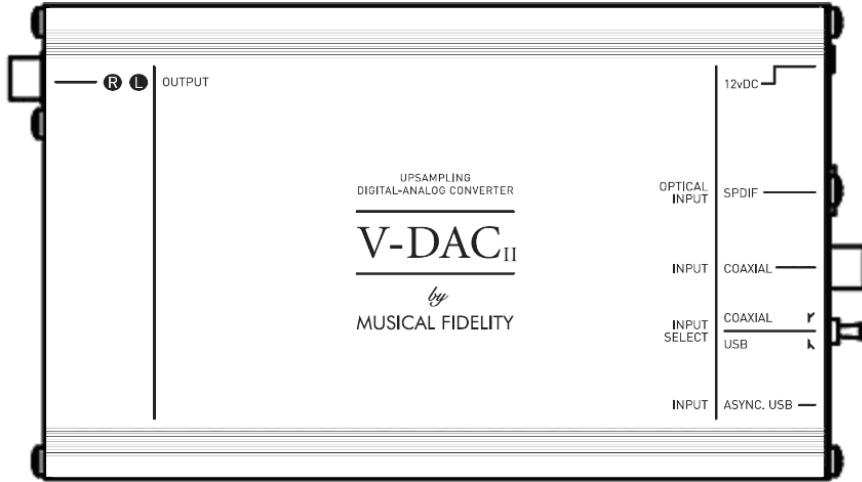


# V-DAC<sub>II</sub> Digital To Analog Converter with 24-bit/96kHz Asynchronous USB

## Instructions



### Connections

All connections must be made before the mains adaptor is plugged in, and before any amplifier connected is switched on. Always switch off the equipment attached to the V-DAC before connecting/disconnecting power, changing leads or inputs.

#### Digital optical or coaxial inputs

Using good quality RCA leads (not supplied), connect the digital coaxial or optical output from a CD player or other digital audio source to the V-DAC SPDIF or COAXIAL sockets.

Set the input select switch to "coaxial" if using either of these inputs.

#### USB input

A good quality USB A to B cable is required to connect the unit to the computer.

Plug the B (square) end into the socket in the back of the V-DAC

Plug the A (rectangle) end into a free USB socket on your computer. Set the input select switch to "USB".

Once the unit is plugged in and powered, the computer should detect the new hardware and install a generic driver automatically (No setup or driver disk required). The V-DAC is then ready to play V-DAC, CD or any other form of music file recognised by the computer.

#### Outputs

Connect the V-DAC left and right outputs to the line level inputs of the amplifier system. It is advisable to have the amplifier turned off at this point.

#### Power

Plug the DC connector lead from the power supply unit into the V-DAC's power inlet socket, and plug the adaptor itself into a convenient wall mains outlet. The blue LED will light to confirm the unit is ready for use, and the green LED should also be lit indicating presence of digital signal.

#### Use

Turn the volume on amplifier to normal listening levels, sit back and enjoy the music.

These products have been designed so that they may be left on indefinitely, but please note the mains adapter may become warm to the touch - this is normal.

### Additional USB information

On the host computer, a new mixer will be available, which is the default mixer whenever the DAC is plugged in. Use this mixer to select the source or adjust levels if required. CD, MP3, WAV files played on any software should now play through the DAC. This device has been designed to work with Windows 98, ME, 2000 and XP. The computer drivers for the USB input of the V-DAC should install automatically. To check correct installation follow these steps:

#### PC users

Check the computer has picked up the device and is currently using it by clicking: (most Windows versions)

- Start
- Settings
- Control panel
- Sounds and Multimedia
- Audio

Check "USB audio device" appears under PREFERRED AUDIO DEVICE tab

#### Mac users

Check the computer has picked up the device and is currently using it by clicking: (MAC OS X)

- System preferences
- Hardware
- Sound

Check that "USB audio DAC" is selected under the OUTPUT tab. If the computer's warning sounds/chimes are to played through the DAC, make sure it is selected under the SOUND EFFECTS tab too.

*This device is a high speed serial data processor, and by its nature, requires a very high volume of USB bandwidth. It will benefit greatly from being the only device connected on its USB 'port'. Sharing the same port with other devices may cause unwanted artefacts such as dropouts or temporary loss of signal. This especially includes the use of the DAC on a USB hub/splitter alongside other USB components.*

### Introduction

Thank you for purchasing the V-DAC digital to analog convertor. We sincerely hope that it will bring you many years of outstanding listening pleasure.

### Installation Precautions

Your new V-DAC is designed and built to provide trouble-free performance, but as with all electronic devices, it is necessary to observe a few precautions:

Do not use the V-DAC near water. The unit must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, must be placed on the unit.

Keep the V-DAC away from heat such as radiators. No naked flame sources, such as lighted candles, should be placed on the unit.

### Power Supply Note:

Only use approved *Musical Fidelity* DC power supply. The use of other adaptors or supplies could seriously damage the V-DAC.

This Hi-fi product has been tested to ensure that its operation is not adversely affected by normal background levels of Radio Frequency Interference (R.F.I.), and that it does not itself generate excessive amounts of interference. However, if a problem persists, please contact your Musical Fidelity agent.

Never open the case of the V-DAC yourself, as this will invalidate the guarantee.

Place all connecting cables where they are not likely to be walked on or trapped by items placed on them.

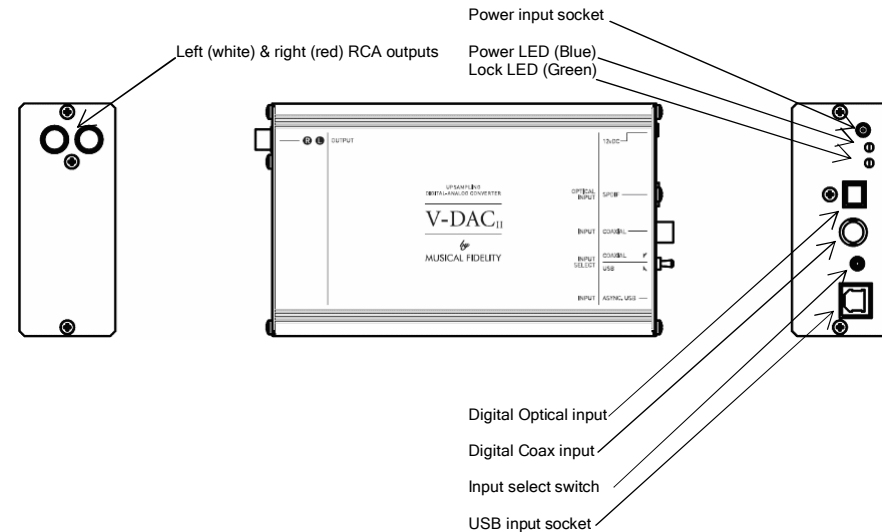
The V-DAC will operate in accordance with its specifications within the following environmental range:

Temperature 5 to 45 degrees Celsius

Humidity 10 to 90% non condensing

There are no user adjustments inside. Please refer all service work to an authorised Musical Fidelity agent.

### Front and back connections



Basic problem-solving with an amplifier is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

Problem	Probable Cause	Remedy
No power	Power supply not switched on. Power plug is not fully inserted into rear socket	Check power supply is plugged in and switched on Plug in securely
No sound	Wrong connections between input source and the V-DAC Wrong source selected	Check digital/USB input leads are securely connected. Check INPUT SELECT switch is correctly set for required source Green LOCK LED will light when an active digital/USB input is detected.
No Output	Wrong connections between the V-DAC output and the following component	Check audio input lead connections
Hum	Audio connector plug not fully pushed in	Insert plug securely
Dropouts in sound (Digital inputs)	Digital input lead not properly connected Faulty digital input lead	Check input lead is fully secured Change or replace lead. Please use a good quality straight-through signal-and-ground phono to phono lead for coaxial connection.
No Sound (USB input)	Computer USB port not working or incorrectly setup	Check USB port with another USB device. See "additional USB information" section
Dropouts in sound (USB input)	Shared USB port with another device  Computer busy with another application Computer low on resources	Avoid sharing the USB port with other devices, if possible. At times an application (program) may intervene, sometimes invisibly e.g. a virus scanner. When this happens, computer resources are temporarily used up, and playback may suffer. This is not a fault. Try running fewer applications if possible.

If none of these actions affect a cure, please contact the dealer, or an authorised Musical Fidelity service agent. Remember; never open the case of the V-DAC, as this will invalidate the guarantee.

Specifications:	Up sampling	24 Bit	192kHz
	Output impedance	47Ω	
	Maximum output	2.2V	
	Total harmonic distortion	0.004%	20Hz-20kHz
	Frequency response	+0, -0.1dB	20Hz-20kHz
	Crosstalk	-104dB	20Hz-20kHz
	Signal / noise ratio	-117dB	"A"-weighted
	Total Jitter	12ps	
	Power requirement	12V DC	500mA
	USB input	Asynchronous data stream at up to 24-bit/96kHz sampling	
Connections	Digital inputs	1 RCA (coaxial), 1 TOSLINK (optical), 1 USB (type B)	
	Line level outputs	1 pair RCA sockets	
	Power input	1.3mm DC power socket	
Dimensions	Length	170mm	6 3/8" including terminals
	Width	95mm	3 3/4"
	Height	40mm	1 3/8" including "feet"
Weight	Unit alone	350g	12 1/4oz
	Unit packed in carton	1Kg	2 1/5 lbs
Accessories (supplied)	DC power supply	12V	500mA 1 off
	Leaflet	V-DAC	instructions 1 off

Musical Fidelity reserves the right to make improvements which may result in specification or feature changes without notice. E&OE.

## Item disposal information for Europe



**DISPOSAL**  
The crossed out wheeled bin label that appears on the back panel of the product indicates that the product must not be disposed of as normal household waste. To prevent possible harm to the environment please separate the product from other waste to ensure that it can be recycled in an environmentally safe manner. Please contact your local government office or your retailer for available collection facilities.

**DISPOSITION**  
La poubelle sur roulettes barrées X, qui apparaît en logo sur le panneau arrière du produit, indique que celui-ci ne doit pas être traité comme un déchet domestique commun. Afin de protéger l'environnement, ce produit électronique devra être géré séparément et donc recyclé selon les nouvelles normes Européennes Rohs concernant les déchets d'appareils électroniques. Prière de contacter les services concernés gouvernementaux ou votre point de vente pour l'élimination et l'enlèvement de déchets électroniques équipés de composants électroniques.

**DISPOSAL**  
La etiqueta cruzada hacia fuera del compartimento que aparece en el panel trasero del producto indica que el producto no se debe reciclar como basura normal de la casa. Para prevenir daños posible al ambiente separe por favor el producto de otras basura para asegurarse de que puede ser reciclada de una manera ambientalmente segura. Entre en contacto por favor a su oficina gubernamental local o a su minorista para las instalaciones disponibles de la colección.

**RIFIUTI**  
L'etichetta del cassetto barrato riportato sul retro dell'apparecchio indica che il prodotto non deve essere smaltito tramite la procedura normale di smaltimento dei rifiuti domestici. Per evitare eventuali danni all'ambiente, separare questo prodotto da altri rifiuti domestici in modo che possa venire riciclato in base alle procedure di rispetto ambientale. Per maggiori dettagli sulle aree di raccolta disponibili, contattate l'ufficio governativo locale od il rivenditore del prodotto.

**FACHGERECHTE ENTSORGUNG:**  
Das auf der Geräteseite angebrachte Label deutet darauf hin, dass das Produkt nicht mit konventionellem Hauskehricht entsorgt werden darf. Um Schäden und Verschmutzungen an Umwelt und Mensch zu vermeiden, muss das Produkt fachgerecht entsorgt und von anderem Abfall getrennt werden. Wenden Sie sich bei Fragen hierzu an Ihren Fachhändler oder an eine öffentliche Informationsstelle.

**AFVAL**  
Het label op de achterzijde van dit apparaat, een afvalbak op wielen met een kruis doorgeschild, geeft aan dat dit apparaat niet samen met gewoon huishoudafval mag worden weggegooid. Om mogelijke schade aan onze leefomgeving te voorkomen dient dit apparaat, gescheiden van gewoon huishoudelijk afval, te worden afgevoerd zodat het op een milieuvriendelijke manier kan worden gerecycled. Neem voor beschikbare inzamelingsplaatsen contact op met uw gemeentelijke reinigingsdienst of met uw elektronica leverancier.

**HÄVITTÄMINEN**  
Yrüksattuu jäsästää kuvaava tarra tuotteen takalevyssä kertoo, että tuotetta ei saa käsitellä normaalia talousjätteenä. Ympäristön suojelemiseksi on tuote pidettävä erillään muusta jätteestä ja se on kiertettävä ekologisesti kestävällä tavalla. Ota yhteyttä laitteen myyjään tai Pirkanmaan Ympäristökeskukseen lähimmän kierrätyskeskuksen löytämiseksi.

**AFSKAFNING**  
Logoet med en skraldespand med kryds over på bagsiden af apparatet indikerer at dette produkt ikke må kasseres som normal husholdningsaffald. For at forebygge mulig skade på miljøet, bedes De separere dette produkt fra andet affald, og sikre at det bliver genbrugt på en miljørigtig måde. Kontakt venligst de lokale myndigheder eller din forhandler for oplysning om nærmeste tilgængelige opsamlingssted for elektronikaffald.

**ΑΠΑΚΑΘΙΑ ΑΠΟΡΡΙΨΗ**  
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