Specifications

DAC-V1

AUDIO INPUTS

Asynchronous USB (High Speed):	Type B
Digital Inputs:	5 S/PDIF (1 coaxial BNC, 2 coaxial RCA, 2 optical TOSLINK)

AUDIO OUTPUTS

Analogue Outputs:	2 (RCA and DIN) Variable Pre-amp Output Line Output Fixed: 2.1V RMS
Headphone Output:	¼ inch (6.35mm) TRS Socket
Frequency Response:	10Hz to 20kHz +0.1dB/-0.5dB
THD:	<0.002%

CONTROL

IR Input:	Front
Handheld:	Remote handset included
Other:	Front panel buttons and touch-sensitive logo mute function

FORMATS

Sample Rates Supported:

USB:	44.1kHz to 384kHz
S/PDIF:	32kHz to 192kHz, 24bit

OPERATING SYSTEM

Compatible with:

Windows:	Windows 7 and 8 (up to 24bit/384kHz) Custom driver available
Mac OSX:	OSX 10.7 and above (up to 24bit/384kHz)

POWER

Supply Voltage:	115V or 230V, 50 or 60Hz
Power Consumption:	<17VA

PHYSICAL

Dimensions:	87 x 207 x 314mm (H x W x D)
Weight:	4.3kg
Finish:	Black powder coated

NAP 100

AUDIO INPUTS

Input Impedance:	18kΩ

AUDIO OUTPUTS

Power Output:	50W per channel into 8 Ω 100W per channel into 4 Ω
Voltage Gain:	29dB
Frequency Response:	-3dB 3.5Hz to 69kHz

POWER

Mains Supply:	115V or 230V, 50 or 60Hz
Quiescent Consumption:	15VA
Maximum Consumption:	260VA

FINISH

Dimensions:	87 x 207 x 314mm (H x W x D)
Weight:	5.1kg
Finish:	Black powder coated

DAC-V1 & NAP 100
Asynchronous USB DAC & Power Amplifier

naim
world class sound...

DAC-V1 & NAP 100

Digital made musical

For many music fans the computer has become an important audio source. Streamed music, downloaded music or ripped CDs are stored on the computer for playback by iTunes, Windows Media Player or one of a number of specialist audio applications. Computers, however, are not optimised for sound quality and on their own will not do your music justice, that's where our new DAC-V1 and NAP 100 step in.

The DAC-V1 is a compact digital to analogue converter with volume control. It incorporates an asynchronous USB input, five S/PDIF digital inputs, an analogue output (fixed or variable), a digitally controlled analogue volume control and a front panel headphone socket. Connected to a computer via USB, the DAC-V1 integrates with the operating system to provide audio playback with performance that's defined not by computer hardware, but simply by the quality of the audio data. And with DAC-V1 capability the quality of your audio data can be incredibly high, extending right up to 24bit audio at 384kHz. With our DAC-V1 your computer is more than just a convenient audio source, it becomes a genuine, high-end, high-resolution music hub.

Powerful yet flexible

Designed to partner the DAC-V1 is our new, compact NAP 100 power amplifier. In its dimensions the NAP 100 shares the compact footprint of its partner at just 20cm wide but it's a power-house: dynamic, musical and capable of driving a wide range of demanding loudspeakers. If you do all your listening through headphones however, the DAC-V1 houses its own extremely capable, discrete single-ended class A headphone amplifier. This means you can plug your headphones straight into the front panel, avoiding the need for a power amplifier and speakers altogether if you wish.

While the DAC-V1 asynchronous USB input can bring computers into the realm of high-end audio quality, its S/PDIF inputs enable other digital audio sources to benefit from Naim DAC technology. The DAC-V1 can instantly improve the sound of digital devices such as CD players, music streamers, games consoles, TVs, or hard-disk players like the Naim UnitiServe. Combine the DAC-V1 with a NAP 100 and UnitiServe hard disk music server, for example, for a compact high-end music system that can take advantage of new music sources and delivery formats. Further demonstrating its flexibility, the DAC-V1 also has a place in traditional hi-fi systems. Connect a DAC-V1 to a spare analogue amplifier input and both digital and computer audio sources can be brought into the traditional audio fold – with phenomenal sound quality.

Asynchronous USB Explained

Digital audio isn't just about the data – 0s and 1s – and ensuring that each sample value is accurately converted into a corresponding output voltage. Also vital to achieving the highest fidelity is ensuring that each successive sample is reproduced at a precise time interval from those around it. If that time interval varies – an effect known as jitter – then the output waveform will be distorted. To prevent this, the master clock that controls the process should, ideally, be placed right next to the digital-to-analogue converter circuitry, not remote from it. Asynchronous mode USB provides for this because it allows data to be 'pulled' from the source as required, whereas in other modes the data is 'pushed' down the interface under control of the far inferior and distant clock in the computer.

Compact Power

The NAP 100 is a classic expression of traditional Naim power amplifier engineering. Offering 50 watts per channel at 8 Ω, and 100 watts at 4 Ω, the NAP 100 is a dual mono design based on the circuit topology found in our SuperUniti reference all-in-one player. It features a large toroidal transformer and fully discrete amplifier circuits. While the dimensions of its extruded and die-cast enclosure are conveniently compact, its performance is expansive, dynamic and bursting with trademark Naim rhythm and clarity.

What it connects to...

As well as making the most of music from your computer the DAC-V1 can handle audio from an array of digital sources and integrate neatly into modern and traditional hi-fi systems.

PC/Mac/Laptop
Make the most of music from your computer via asynchronous USB

Hard disk player
Create a compact yet powerful hi-fi system by combining the DAC-V1 with the NAP 100 and UnitiServe

CD player
Take over preamplifier and DAC duties for your CD player and give extra connectivity

DVD player
Play sound from your movies, documentaries, live concerts and more

Games console
Immerse yourself in games and multi-media sound from your favourite console

Satellite TV receiver/TV
Improve the sound quality of your TV or set top box

Speakers
The 50W (into 8 Ω) NAP 100 power amplifier will drive a wide range of high-end loudspeakers

Headphones
Play direct through your headphones from the front panel socket of the DAC-V1