



DacMagic



DacMagic... the first affordable way
to bring your digital music to life.

 *Cambridge Audio*

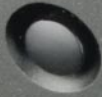
Your music + our passion

Cambridge Audio

DacMagic
Upsampling DAC

Ascended Line
NEW

On/Off



Source

Digital 1

Digital 2



Un. B.

Min. B.

Stop



Filter/Phase

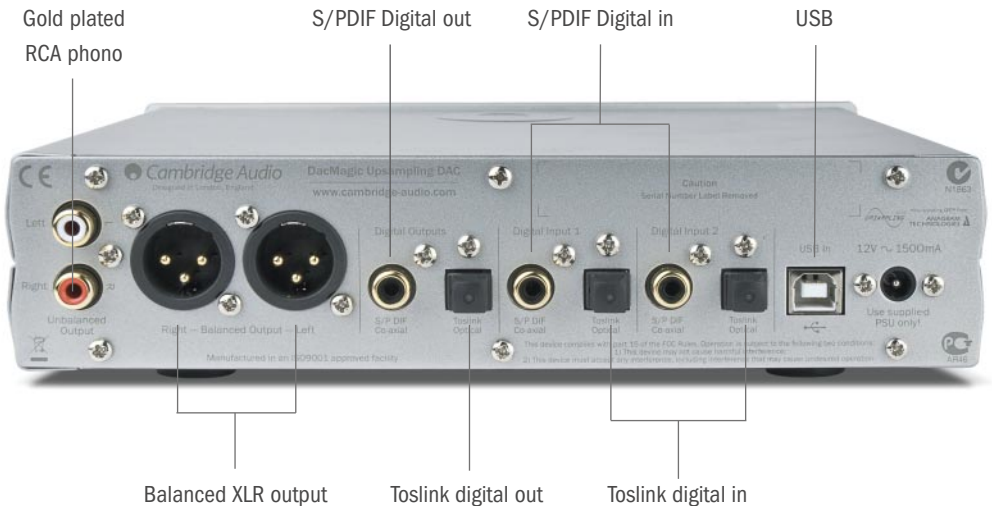
Phase — Bypass Sample Rate —
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

UPSAMPLING

Enjoy digital music like never before...

Cambridge Audio pulls another rabbit from the hat with DacMagic. This upsampling digital to analogue converter is the world's most affordable and effective way to upgrade any PC, network music device, games console or standard CD/DVD player to truly high end sound quality.

DacMagic is also designed to link with today's most popular music storage devices - such as PCs or Media Center PCs - instantly bringing downloaded content to life. And by simply linking DacMagic between PlayStation™ and Xbox™ consoles and your hi-fi, gaming gets a new dimension thanks to dramatically improved soundtracks and special effects.



With a variety of simple connections including S/PDIF, Toslink and USB inputs, DacMagic can be set-up in seconds. Key to its abilities is Adapted Time Filtering (ATF™) upsampling technology and twin Wolfson DACs which provide outstanding stereo imaging.



MP3



DVD



PC



Games



CD

The magic of ATF

Adaptive Time Filtering (ATF) upsampling technology - developed in conjunction with Anagram Technologies of Switzerland - converts 16-24 bit audio data to 24 bit/192kHz dramatically improving musical reproduction. When used with standard CDs for example, ATF enhances audio clarity, richness and dynamic range to a level normally associated with SACD or DVD-A discs “upgrading” the investment you have already made in your music.

A 32 bit Digital Signal Processor (DSP) also eradicates jitter, a problem which blurs the timing information of reproduced audio signals resulting in degraded audio quality. This is especially effective with hard disk playback from PCs or media players connected over a network.

UPSAMPLING



Available in both silver and black

Twist me - turn me

For total flexibility, DacMagic can be located horizontally or vertically using the supplied stand.



Why you need DacMagic

Digital music like never before!

Adaptive Time Filtering (ATF) asynchronous upsampling technology might sound complicated but the benefits are instantly audible. Essentially it converts 16-24 bit audio to 24 bit/192kHz so you hear so much more from compressed material. Whether your digital music collection is stored on a PC or you use a network music client – Squeezebox™, SoundBridge™, Sonos™ etc - the difference in audible quality is incredible.

Games just explode into life

Gaming isn't just about the moving image. By connecting your games console - PlayStations (PS2 and PS3™), Xbox™ and Xbox 360s™ to your hi-fi via DacMagic, dramatically improved soundtracks and special effects are immediately apparent.

Breathe new life into your DVD player

DVD players can sound great with movies, but normally lack polish when playing back CDs. DacMagic is the simplest way to significantly eradicate jitter and markedly improve your DVD player's sonic performance.

Resurrect your CD player

Maybe your CD player is ageing gracefully and is in need of a boost. DacMagic adds a new lease of life into any CD player fitted with an S/PDIF or Toslink (optical) output.

An audiophile tour de force!

DacMagic sports a range of components you'd never dream could be crammed into such a compact case. These include a 32-bit Texas Instruments Digital Signal Processor (DSP), dual Differential Virtual Earth balanced filter topology and twin Wolfson WM8740 high quality DACs in dual differential mode for excellent stereo imaging. Other features include a choice of digital filters - linear phase/minimum phase/steep filter - and an incoming sampling rate indicator which shows the original source quality.

It's flexible and easy to set-up

Up to two digital sources - network music devices, games consoles, CD/DVD players etc. - can be connected concurrently using S/PDIF or Toslink inputs. Additionally, you can connect DacMagic directly to your PC using a USB connection (no drivers needed) and dramatically improve the quality of your digital music. Once upsampled, DacMagic offers both balanced XLR outputs and unbalanced RCA outputs for superior quality analogue transfer.

Technical specifications

Inputs	2 x digital inputs (choice of either co-axial or optical connection for each) 1 x USB PC digital input
Audio outputs	1 x pair gold plated RCA phono outputs 1 x pair XLR balanced outputs 1 x co-axial digital output (pass through) 1 x optical digital output (pass through)
D/A converters	Dual Wolfson WM8740 24 bit DACs
Digital filter	Texas Instruments TMS 320VC5501 DSP upsampling to 24 bit 192kHz
Analogue filter	2-pole dual differential Bessel double virtual earth balanced
Frequency response	20Hz to 20KHz (± 0.1 dB) (steep filter disabled)
THD @ 1kHz 0dBFs	<0.001% 24 bit
Signal / noise ratio	-112dB _r
Supported digital input upsampling frequencies	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz
Audio output upsampling	Fixed 24 bit 192kHz
Power consumption	18W
Dimensions (H x W x D)	52 x 215 x 191mm (2.0 x 8.6 x 7.6")
Weight (gross / net)	2kg / 1.3kg
Finishes	Silver / Black

Visit www.cambridge-audio.com to locate your nearest retailer, find full specifications, product reviews and support.

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