Touted as the missing link to audiophile sound, digital-to-analogue converters and headphone amplifiers are the secret to getting the most from digital music. By Christopher Lim

> ters or mobile phones. The got with traditional hi-fi cluding shipping. set-ups? Unfortunately, too many people are wasting (DAC), and the second is the headphone amplifier.

ITH the phasing out of CDs designs its products in the special administrative region and vinyl records, music lov- but manufactures them in China. Shelve any bias against ers are increasingly keeping hi-fi products made in China, because many of them their collections on compu- combine great quality with rock bottom price tags.

The Trends Audio UD-10.1 Lite USB Audio Converter problem is: How do you get costs \$190 from local distributor Audio Trio. Buying dithe same sound quality you rect from www.trendsaudio.com will cost you US\$119, ex-

Either way, that's ridiculously cheap compared with their money upgrading their computer speakers and the entry-level V-DAC from prestigious UK brand Musiheadphones – when they really should be looking at two cal Fidelity, which local distributor Alpha Audio sells for other gadgets that are the real key to digital music bliss. \$460. The V-DAC is one of the cheapest competitors to The first of these is the digital-to-analogue converter the UD-10.1 Lite, but, in terms of features, offers only a handful of extra input options to make up for being almost double the price.

grade project right here because the UD-10.1 Lite has a headphone jack built in. It's a brutally bare brushed met-

When tested against the built-in headphone jack on several computers from Dell and Apple, the UD-10.1 Lite and adds a bit of bass and a touch of mid-range warmth.

er, check out the Naim DAC (\$5,484) from distributor Absolute Sound (absolutesounddistribution.com). It's a

**TRENDS AUDIO PA-10 TUBE HEADPHONE AMPLIFIER** NAIM DAC Trends Paver Supply Vett PW-10 **BEYERDYNAMIC A1 HEADPHONE AMPLIFIER GETTING AN EARFUL** Beyerdynamic A1 (above) is available in a \$3,339 bundle with its new top-of-the-line T1 headphones (top left); Trends Audio PA-10, shown here as

ity and compatibility.

which imparts warmth to the sound

The main thing you can't do is plug your computer into it via USB - you will need a special digital cable for ing from standard to esoteric.

part of the Trends Audio Combo Hi-Fi System (right), utilises a vacuum tube,

your device while it charges. You can also control play- lousy MP3s sound rounder, richer and more alive. back from the DAC's buttons, and the inferior DAC built into your iPhone's or iPod is bypassed. The Naim DAC is warmth, and it easily gets hot enough to fry an egg. Don't the only high-end DAC officially certified by Apple for use with its mobile products.

As one would expect at this price, tested sound quality Lite's as the UD-10.1 Lite's quality is over built-in headphone jacks on computers. The Naim DAC makes music sound more three-dimensional, with detailed highs that tion doesn't provide enough power to drive indon't fatigue, a rich and expansive mid-range and bass efficient headphones propthat's deep and full.

However, the Naim DAC only makes sense if you have unscrew the casing and at least CD-quality music files, or plan to use it with a CD fiddle with mini-switchplayer. And it will only truly shine if you have a music library that is of better-than-CD quality.

But if you have a suitable sound source, the Naim solve the problem, DAC is an incredible piece of kit, despite of its prodigious but those with phobi-5.6kg weight and 43cm width.

## **Headphone amplifier**

Full-size headphones and in-ear earphones have become increasingly popular as more people listen to music on computers and mobile gadgets.

But even the best headphones and earphones don't which you can also buy from losound their best with standard computer and phone cal distributor Audio Note (hiset-ups. An even bigger problem is volume. Many audi- fi.com.sg), doesn't suffer from the ophile headphones require so much amplifier power to same issue. All the mini-switches drive them properly that when you plug them into a lap- to boost volume are located on the top or phone, you can barely hear anything even at full bottom of the amplifier's longer exvolume. This is especially the case if you enjoy listening terior, which is convenient. to quiet jazz or classical recordings.

er. Trends Audio comes to the rescue again in the valalong with better bass extension. The treble is also ue-for-money segment with its PA-10 tube headphone a bit more articulate. Overall, it impresses with more

amplifier (\$320 from Audio Trio; US\$225 direct), which is about the same size as the UD-10.1 Lite DAC.

As the name suggests, the PA-10 utilises a vacuum that. But it accepts most other inputs and outputs, rangdifferent types of tubes to change the amplifier's sonic ar easily justifies its premium pricing. You can even connect a run-of-the-mill iPhone/iPod character. There's more than enough power to drive the USB cable to the Naim DAC to play music directly from most inefficient headphones, and the PA-10 makes even

> Unfortunately, the tube also gives the PA-10 physical put it on your lap or anything that will melt or burn.

An alternative is the Lehmannaudio Rhinelander (\$630), which doesn't use tubes and is almost as small. It is as big an improvement over the Trends Audio UD-10.1 lacks the warmth of the PA-10's sound, but makes up for that with balance and neutrality.

The only clear downside is that the standard configura-

erly. For that, you need to es. It's not brain surgery and it does as of screwdrivers and circuit boards may be concerned.

The Rhinelander's big brother, the Lehn Black Cube Linear (\$1,540),

The Black Cube Linear has a much The solution is to buy a dedicated headphone amplifi- more detailed mid-range than the Rhinelander,

poise and authority than its sibling, and while the Rhinelander distinguishes itself from the cheaper Trends Audio PA-10 more in terms of sonic character than sound quality, the Black Cube Line-

Stiff competition for the Black Cube Linear comes not from the bargain bin but from a peer. Beyerdynamic's A1 amp (\$1,869) is being introduced here next week when stock arrives at dealers Hung Brothers (www.hungbros.com) and Stereo (stereo.com.sg).

One area the A1 clearly beats the Black Cube Linear in is bass response. It will go as low as your headphones can handle. It's agile too, and will keep up with everything from Bach cello suites to drum-and-bass dance music. There's none of the thinness often encountered in cheaper headphone amplifiers, and the bass quality is meaty

and distinct. The A1's midrange is a touch richer than the Black Cube Linear's, and treble performance is on par.

There's no need to fiddle with mini-switches because the A1 seems to automatically adjust to whatever kind of headphones you use with it, which results in a consistent volume

The question is whether it's worth paying a \$329 premium over the Black Cube Linear primarily for better

> bass. If you value bass response and have the money, then the answer is a definite ves.

Moreover, the A1 is available in a \$3,339 bundle with Beyerdynamic's new top-of-the-line T1 headphones, which cost \$1,850 by themselves. Buying both in the bundle saves you \$380.

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TRENDS AUDIO UD-10.1 LITE DAC

