

MUSICAL FIDELITY



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Press Realise Musical Fidelity M1 DAC and M1 HPA

M1 DAC available from August 2010.

In July we will be bringing out the M1 DAC. This is an *improved* version of the V-DAC. We have managed to improve upon the technical performance of the V-DAC. The M1 DAC has superlative technical performance but, perhaps more important, it's in a beautiful package which looks right.

The M1 DAC has 4 switchable digital inputs; 2 coax inputs, an optical input and a USB input. It has both single ended and balanced outputs. The M1 DAC's technical performance is astonishing. Its noise ratio is about 120dB down. Distortion is less than .0002%, linearity is perfect down to better than 100dB. Jitter is vanishingly low. The M1 DAC's technical performance is, on the technical limits of the digital medium.

Musical Fidelity was pretty well the first company in the world to make a DAC. Since then we have an unbroken lineage of top performing, top value digital products.

The new M1 DAC is the fruit of our 23 years experience of making top performance DACs. It has four digital inputs; coax, optical, balanced and USB.



The M1 DAC will lock on to any SP diff signal at; 32kHz, 44.1kHz, 48kHz, 88kHz, 96kHz and 192kHz. The input sampling frequency is displayed on the front panel. The M1 DAC upsamples to 24-bit at 192kHz. This is genuine true upsampling. The M1's technical performance is, pretty well, as good as any at any price. We know this sounds like an incredible claim but it's true. Musical Fidelity's state-of-the-art circuit

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design and pcb layout with the use of top quality digital components gives state-of-the-art performance. There's no secret or mystery about this. We use top quality digital components in carefully designed circuit configurations which are subtly implemented on brilliant pcb layouts. Unsurprisingly the result is state-of-the-art performance. It's just that the price is competitive so many people find it hard to believe.

The M1 DAC has vanishingly low distortion, typically less than 0.005% across the band. Frequency response is ruler flat. Jitter is extremely low. The noise ratio is outstanding, one of the quietest DACs in the world regardless of price. Looking at the M1 DAC's total measurements and comparing them to any DAC up to ten times its price you will see that, on balance, the M1 DAC is equal to or better than any. The M1 DAC has a high quality power supply. Interestingly it has choke filtration on the mains input. This, effectively, is a mains signal conditioner which increases the performance and value of the M1 to even greater heights.

The M1 DAC's visuals match Musical Fidelity's new visual identity. It is in a *half width* M3 package. It's a beautiful piece. UK retail will be £499.

Specifications

Output

Output impedance 47 ohms
Output, digital 0dB level RCA output - 2.2V r.m.s. nominal (RCA) 4.4V (XLR)

DAC
DAC circuit 24 bit Delta-Sigma (bit stream) dual differential 8x over-sampling to 192kHz
Total correlated jitter <12 picoseconds peak to peak
Linearity <0.1dB down to -96dB
Frequency response 10Hz to 20 kHz -0.1dB max.
Channel separation >105dB 20 Hz to 20 kHz
Signal to noise >119dB "A" - wtd.
Total harmonic distortion <0.0025% 10Hz to 20 kHz



Connections

Line level outputs

1 pair line level RCA (phono), left and right
1 pair line level XLR (balanced), left and right

Digital inputs

1 XLR AES balanced digital input
1 RCA coaxial connector SPDIF 32-192 kbps (16-24 bit stereo

PCM)

1 TOSLINK optical connector 32-96 kbps (16-24 bit stereo PCM)
1 USB type 'B' connector for computer/PDA 32-48 kbps

Power requirement

Mains voltages

115/230VAC 50/60Hz (factory pre-set)
100VAC 50/60Hz (alternative)

Consumption

10 Watts maximum

Weight

Unit only, unboxed

3.4 kg (7½ lbs)

In shipping carton & inc. accessories

4.1 kg (9 lbs)

Dimensions

Wide

220 mm (8⅝")

High, including feet

100 mm (4")

Deep (front to back) including terminals

300 mm (12")

Standard accessories

IEC type mains lead (10-Amp type)





Latest realise note

1. Balanced digital input. The world is becoming increasingly digital with more sources becoming available all the time. The audiophile has an almost religious belief that "balanced is better". He believed it for analog signals and that belief system applies to digital as well. Giving the M1 DAC a balanced digital input will help the audiophile to see that it is a true high end DAC.
2. Upgrade of optical input performance. There is a trend in high end digital for 24-bit 96K source data. We have made some detailed circuit design and software changes to the M1 DAC and, *assuming an appropriate optical cable is used and there is a 24-bit 96K source*, the M1 DAC will handle 24-bit 96K via optical input as well.

M1 HPA Pure Class A headphone amp

We all know that when we listen to pure Class A amps such as the AMS35i or AMS50 that the sound is incredible. It is richer, fuller, smoother and the bottom end is more extended. That's why the reputation of pure Class A amplifiers remains so strong; they *really* are the best thing.

Musical Fidelity has a long history of making superlative headphone amplifiers. The M1 HPA pure Class A headphone amp is a *world first*. Nobody has ever produced a pure Class A headphone amp before. It has *exactly* the same sonic characteristics with headphones as our pure Class A amplifiers with loudspeakers. It sounds fantastic. The M1 HPA pure Class A headphone amp's technical performance is outstanding. Distortion is incredibly low (less than .0005% across the band) frequency response is ruler flat. Noise ratio is outstanding. In every technical parameter the M3 pure Class A headphone amp is outstanding.

Like the M1 DAC it is in a half sized M3 package.

The i-pod's success has stimulated the sale of very expensive headphones. Up to now, there wasn't an exotic headphone amp to drive them with. Sales of expensive headphones have increased *dramatically*.

There is an *already existing* substantial market for an ultra high performance headphone amp to go with ultra performance headphones. The M1 HPA pure Class A headphone amp is the perfect product for those existing users.

The M1 HPA pure Class A headphone amp UK retail will be £499.



M1 HPA: Specifications

Output

Output Power	1.1W into 32Ω
Output impedance	less than 1Ω
Output level	5.2V rms max
Frequency response	15Hz to 75kHz -3dB max.
Signal to noise	> 109dB "A"- wtd
Total harmonic distortion	<0.008% 10Hz to 20kHz

Connections

Line level input	1 pair RCA line in left and right
Line level outputs	1 pair RCA line out left and right 1 pair RCA pre-out left and right
Digital input	1 USB type 'B' connector for computer/PDA

Power requirement

Mains voltages	90-250VAC 50/60Hz
Consumption	25 Watts

Weight

Unit only, unboxed	3.4 kg (7½ lbs)
In shipping carton & inc. accessories	4.1 kg (9 lbs)

Dimensions

Wide	220 mm (8½")
High, including feet	100 mm (4")
Deep (front to back)	300 mm (12") including terminals

Standard accessories

IEC type mains lead (10-Amp type)