

# SPECIFICATIONS

DAC architecture	24 bit Delta-Sigma (Bitstream) 8x oversampling
Sampling frequencies	32kHz, 44.1kHz, 48kHz, 88.2kHz and 96kHz
Data types	Supports 16, 18, 20 and 24 bit word length
Inputs	Input 1: 75Ω S/PDIF coaxial or TOSLINK optical Input 2: 75Ω S/PDIF coaxial.
Outputs	Left and Right analog audio 75Ω S/PDIF digital recording/loop out
Frequency response	10Hz - 20kHz $\pm$ 0.2dB
S/N ratio	> 96dB unweighted > 105dB 'A' weighted
THD	< 0.006% 10Hz - 20kHz unweighted < 0.003% 10Hz - 20 kHz 'A' weighted
De-emphasis	< $\pm$ 0.1dB error, automatically selects correct curve for 32kHz, 44.1kHz or 48kHz
Linearity	< $\pm$ 0.3dB to -100dB
Dimensions (approx.)	110 x 110 x 330mm (W x H x D) Height and width include feet, depth includes terminals

Note : This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules, operation is subject to two conditions:

- 1 - This device may not cause harmful interference.
- 2 - This device must accept any interference received including interference that may cause undesired operation.

These limits are designed to reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed in accordance with the instructions may cause harmful interference to radio communications. However as there can be no guarantee that interference will not occur in a particular installation we recommend that you take one or more of the following measures if interference is experienced:

- Identify the source of interference, turn the X-24K off and on, does the interference persist?
- Re-orientate or relocate the receiving antenna.
- Increase the separation between the X-24K and receiver.
- Connect the X-24K and receiver to different mains outlet circuits.
- Consult your dealer or an experienced radio/TV technician.

**WARNING - ANY MODIFICATIONS OR CHANGES TO THIS UNIT NOT EXPRESSLY APPROVED BY MUSICAL FIDELITY WHO ARE THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.**

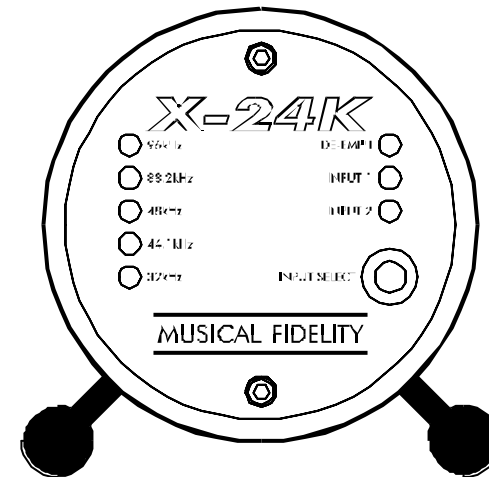


*Musical Fidelity reserves the right to make improvements which may result in specification or feature changes without notice.*

# X-24K

## Multistandard 24 Bit Digital to Analog converter

### *INSTRUCTIONS FOR USE*



**MUSICAL FIDELITY**

## Introduction

Thank you for purchasing the X-24K Multistandard 24 Bit DAC. We sincerely hope that it will bring you many years of listening pleasure. The X-24K uses the very latest 24 Bit DAC technology to provide a genuine upgrade to the audio performance of your CD or DVD player. The X-24K can recognise and lock-on to all current and proposed sampling frequencies and is fully compatible with CD, DAT, MiniDisc, broadcast digital and DVD standards. In addition, the X-24K can accept data words of 16, 18, 20 and 24 bit length and will automatically interpolate up to 24 bit word length any input of less than 24 bits. This gives unprecedented accuracy in conversion and near theoretical limit performance with 16 bit sources such as CD. The X-24K incorporates an 8x oversampling digital filter and a 5 pole hybrid analog filter greatly reducing digital aliasing noise and spurious which can affect both sound quality and system matching. Two digital inputs are provided so that, for instance, a CD player and DVD player can be connected at the same time and a digital loop output allows loss-less digital recording.

## Installation Precautions

Your new X-24K is designed and built to provide trouble-free performance. As with all electronic devices it is however necessary to observe a few precautions. Please ensure that you have complied with these before you connect the power to your X-24K. Retain this guide for future reference.

- **Do not use the X-24K near water.**
- **Keep the X-24K away from heat sources such as radiators.**
- **Only use the mains adaptor provided. The use of other adaptors could seriously damage your X-24K.**
- **Place all connecting cables where they are not likely to be walked on or trapped by items placed on them.**

## R.F.I.

This Hi-Fi product has been tested to ensure that its operation will not be adversely affected by normal background levels of R.F.I. (Radio Frequency Interference). It is possible that if the unit is subjected to abnormally high levels of R.F.I. the unit may not perform as expected. In the unlikely event of this happening, please contact Musical Fidelity's service department.

Do not remove any covers, the X-24K will not be covered under warranty if it has been tampered with. There are no adjustments within. Please refer all service work to an authorised Musical Fidelity agent.

## Connections

**All connections should be made before the mains adaptor is plugged in.**

The X-24K is easy to connect into your system. Simply connect the digital output from your CD / DVD player (or other digital source) to one of the X-24K's digital inputs. The X-24K has two digital inputs, input 1 and input 2, selectable by the small push button situated on the front panel. In addition input 1 has both TOSLINK optical and S/PDIF co-axial type connections, you may use either type. The X-24K will automatically use whichever type you connect, however do not make a connection to both at the same time. A second digital source can now be connected to input 2 if required.

The X-24K left and right audio outputs can be connected to any line level input (e.g. CD or AUX) of your amplifier system. For best results we recommend that you use Musical Fidelity X-LINX "no-nonsense" interconnect cables.

Once these connections have been made plug in the mains adaptor, start your digital source playing and select the appropriate input on the X-24K's front panel. One of the sample rate LEDs should light (44.1kHz for CD, 48kHz for DAT etc.) indicating that the X-24K has successfully locked onto and decoded the incoming datastream. Sound should now be heard.

The X-24K has a 75ohm S/PDIF digital loop / recording output that can be used like a conventional tape output for digital recording with MiniDisc, DAT, CDR machines etc. or for looping the digital signal to further processors.

The X-24K has been designed so that it may be left on indefinitely.

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