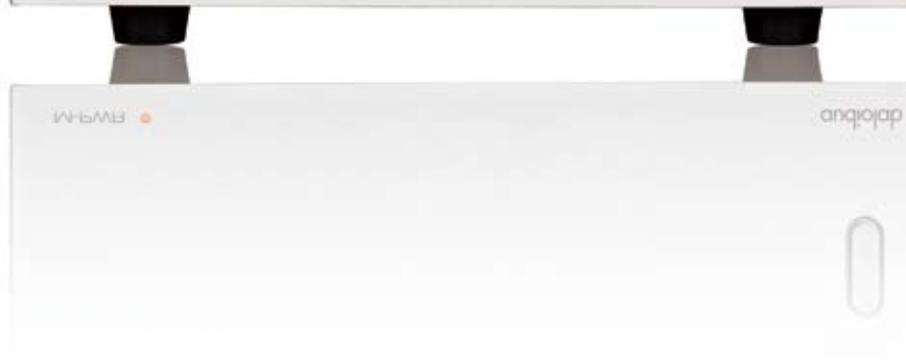
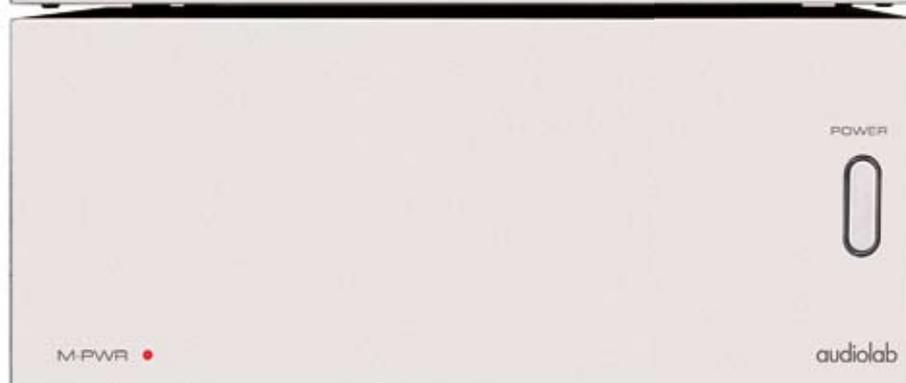


# LAB SERIES



audiolab



# Introduction

The LAB series began with the award winning M-DAC. Widely regarded as the best in class DAC by any measure the M-DAC's global success has spawned a new range of half width products to match the digital age of music. The series has now expanded to include Q-DAC and M-PWR. All of these products have been engineered from the ground up with all new proprietary circuit designs and custom design tooled parts.

As the world of music changes Audiolab continues to be at the forefront of innovation and design. With the new LAB Series of products Audiolab has brought flexibility, convenience, and quality to any HiFi setup. Whether pairing our award winning DAC's with existing Hi Fi setups or matching them with M-PWR to create one of the best digital mini systems available, the LAB series has a solution for all your digital audio requirements.

## FEATURES

- Asynchronous USB supporting 24-bit/96kHz with remote control of PC / MAC media player via HID support
- 2.7" high contrast OLED display
- ESS Sabre 32 bit DAC chip 9018, 8 channels parallel to 2 channels
- CD / DVD SPDIF subcode embedded Track and Time display
- Advanced de-jittered optical and coaxial SPDIF output, with USB to SPDIF output
- 26 internal regulated supply rails with 10 ultra low noise, low impedance discrete regulators
- 7 user selectable digital filters





# M-DAC

The industry leader in DAC products for the past 2 years M-DAC has racked up more awards and accolades than any other DAC on the market. Ample connectivity along with volume control and headphone out makes M-DAC one of the most versatile DAC's on the market.

A wand like remote control handset allows you to switch inputs, select from preset digital filters and alter the display. The large clear screen allows you to see what input is being used and the sample rate being received.

Sporting the ESS flagship Sabre 9018 DAC chip M-DAC is able to reproduce digital audio with unmatched clarity and enthusiasm. Rest assured that using an M-DAC is the only way you will ever want to listen to your digital music collection now and for years to come.



# Q-DAC

Get the best out of your digital music collection with Audiolab Q-DAC. Developed on Audiolab's famous award winning M-DAC platform, Q-DAC offers the sound quality that made M-DAC the most highly regarded Digital to Analog Converter in its field, but achieves it with simpler functionality.

At the heart of Q-DAC is the extraordinary ESS Sabre DAC chip, an 8 channel 32-bit processor that excels in handling the full bit depth and ultrasonic extension of high resolution audio files with incredible precision and accuracy.

To that amazing DAC Audiolab's engineers have added a fully asynchronous interface coupled to a minimum jitter Master Clock system that ensures freedom from the undesirable side effects of jitter.

Q-DAC also retains the digital pre-amp and headphone amp functionality making it one of the most versatile DAC's on the market. With Q-DAC Audiolab has added yet another industry leading DAC to its stable of digital products.

## FEATURES

- ESS Sabre 32 bit DAC chip 9016, parallel 8 channels to 2 channels
- CD / DVD SPDIF subcode embedded Track and Time display
- Digital optical and coaxial S/PDIF inputs as well as USB
- XMOS chipset dedicated USB input supporting 192Khz/24bit high resolution with Asynchronous data process
- A ultra low jitter Master Clock system
- Class A RCA and headphone outputs
- 2.93" high contrast OLED display
- Audiolab custom filters



## FEATURES

- 1 x Optical digital output, 1 x Coaxial digital output
- 12V trigger & IR input for seamless remote connection
- Anti-vibration CD transport equipped with 3 damping suspension system
- Low standby power consumption - < 0.5W ErP





# M-CDT

Even though we live in the age of digital downloading most of us still have a prized CD collection. For that reason Audiolab has produced the M-CDT, a CD transport designed to perfectly complement the M-DAC and Q-DAC digital preamplifiers.

To a convenient and advanced slot loading mechanism, Audiolab engineers have added a sophisticated digital decoder feeding digital coax and optical outputs for optimum versatility.

In addition Trigger In and Out links allow remote switching of auto power on/off in installations or for convenience in a stack of components. The transport functions can be controlled from Audiolab remote handsets such as that supplied with M-DAC.

## FEATURES

- 2 X 40W into 8 ohms, 2 x 60W into 4 ohms
- -0.3dB (20Hz-20kHz, ref. 1kHz) frequency response
- Signal-to-Noise Ratio 106dB ref 40Watt output
- Analog RCA unbalanced and XLR balanced inputs
- Ultra low noise gain circuit
- Reserved 50% design buffer for the main toroid transformer
- Extruded anodized aluminum enclosure





# M-PWR

M-PWR is a brand new amplifier design from Audiolab that delivers finesse and power in a compact size. It is housed in a beautiful extruded anodized aluminum case that matches the same width and depth of Audiolab's award winning M-DAC, and Q-DAC. M-PWR takes both Unbalanced and Balanced inputs and drives your speakers with 40+40 Watts of high performance, ultra low distortion power output all from a neat package that takes up minimal room on your desktop or shelf.

Whether matching with LAB series DAC components, or other existing sources with volume control, you can be sure that M-PWR will drive your loudspeakers with verve, passion and excitement from your whole music collection.

# Specifications



Model	M-DAC	Q-DAC
Digital Input	2 x coaxial, 2 x Toslink optical, 1 x USB	1 x coaxial, 1 x Toslink optical, 1 x USB
Digital Output	1 x coaxial, 1x Toslink optical	1 x coaxial, 1 x Toslink optical
Output Voltage	RCA: 2.25V RMS; XLR: 4.5V RMS	2.2Vrms±0.1
Total Harmonic Distortion	RCA: <0.002%; XLR: <0.0008%	<0.002%
Frequency Response	20Hz - 20kHz (± 0.2dB)	20Hz - 20kHz (±0.2dB)
Crosstalk	RCA: <-120dB; XLR: <-130dB	<-112dB
Dynamic Range	RCA: >115dB; XLR: >122dB	>110dB
Dimensions (H x W x D)	59 x 246.5 x 252mm	59 x 246.5 x 252mm
Net Weight	3.5kg	3.0kg



Model	M-CDT
General Description	CD Player
Design Philosophy and Core Technology	Slot-in CD
<b>Preamplifier Section</b>	
Output Voltage	0.5V ( RCA Output )
Output Impedance	75Ω ( RCA Output )
<b>Power Amplifier Section</b>	
Frequency Response	-0.01dB(20Hz-20kHz,ref.1kHz)
Total Harmonic Distortion (THD)	<0.001% (1kHz)
Signal-to-Noise ratio (S/N)	≥115dB (A Weighted)
<b>Digital Section</b>	
Sampling Frequency	44.1kHz
Digital Output	1 x Coaxial, 1 x TOSlink Optical
Dimensions (W X H X D)	246.5 X 60 X 234mm
Carton size (W X H X D)	396 X153X344mm
Net Weight	2.85kg
Power Requirements (depending on region)	220-230V ~ 50/ 60Hz 110-120V ~ 50/60Hz 100V ~50/60Hz
Safety Regulation Conformity	CE,C-TICK



Model	M-PWR
Rated Output Power	2 × 40W (8Ω) 2 × 60W (4Ω)
Total Harmonic Distortion	<0.008% (10W 1kHz) <0.05% (10W,20Hz-20kHz)
Frequency Response	-0.3dB (20Hz-20kHz, ref. 1kHz)
Input Sensitivity	600mV (RCA Line in)
Input Impedance	10kΩ (Balanced) 20kΩ (Unbalanced)
Signal to Noise Ratio (S/N)	106dB (A Weighted, ref. 40W)
Power Requirement	220-240V ~ 50-60Hz 110-120V ~ 50-60Hz 100V ~ 50-60Hz
Dimension (H x W x D)	114 x 246.5 x 252 (mm)
Net Weight	4.7kg





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