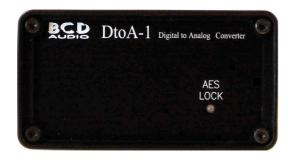
# DIGITAL TO ANALOGUE BOX DTOA-1



Broadcast Audio Custom Manufacture Design and Consultancy

The DtoA-1 is a top quality digital to analogue converter, housed in our black-box. Stereo or twin audio is recovered from an AES-3 signal at up to 200KHz sample rate.



## **Features**

AES-3 INPUT 110R on XLR input.

Stereo balanced audio output on 3pin XLR's.

DC inlet on 2.5mm barrel socket.

Lock indicator LED.

# **Specification – Aes input**

Transformer balanced AES-3 input on XLR. Input impedance 110R. Sample rates 24KHz up to 200KHz.

# **Specification – Analogue outputs.**

Balanced dual or stereo outputs on 3-pin XLRs.

Maximum output level +26dBu.

Normal calibration 0dB for –18dBFs signal. Internal presets allow for alternative calibrations. Output noise –92dB rms 20-20kHz bandwidth, referenced to 0dB calibration. Distortion better than 0.003% at maximum output and reference level. Output impedance 50R. Output balance better than -40dB.

Left-right crosstalk better than -95dB @ 10KHz.

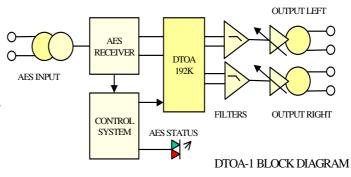
**DC** power requirements

10 to 30V DC on 2.5mm barrel socket. +ve on centre pin. Recommended voltage range 12V to 24V.

Current consumption at 12V DC 150mA.

## **Description**

The transformer balanced AES-3 input is taken to a 192KHz compatible AES receiver and digital to analogue converter.



The control system automatically configures the converter for the correct rate, an indicates lock status on the bi-colour LED. The LED indicates RED for no signal or error, ORANGE for signal OK but muted or GREEN for signal good.

Balanced third-order filters reconstruct the analogue signal to high precision, and electronically balanced output stages complete the signal chain.

The floating power supply accepts a wide range of DC inputs, and produces all of the required voltage rails.