



CAN-D

User Manual

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Copyright.

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Thank You.

By buying CAN-D, you have joined the ranks of the thousands of professional engineers, installers and musicians who choose LA Audio. We hope your CAN-D brings you many years of enjoyable time alignment and amplification!

This manual should get you up to speed with CAN-D's capabilities, controls and specifications. It also details safety precautions that must be taken for the safe use of this equipment. Please take the time to read this information carefully and store this manual for future reference.

SAFETY.



EARTH

This unit is connected via its power cord to the mains safety earth. NEVER OPERATE THE UNIT WITH THIS EARTH CONNECTION REMOVED.

COVERS

DO NOT remove the covers. Refer servicing to qualified personnel only.

VOLTAGE

CAN-D is set to operate at either 115 or 230 Volts, as set by the fuse holder. .

FUSES

CHECK that the fuse fitted is of the correct type for the local mains voltage. ALWAYS replace fuse with the correct type. For 230 Volts, use 100mA slow-blow type. For 115 Volts, use 200mA slow-blow type.

MOISTURE

DO NOT expose the unit to rain or moisture. If your CAN-D should become so exposed REMOVE the mains power immediately.

HEAT

ALWAYS site your CAN-D away from sources of heat including direct sunlight and ensure adequate ventilation around the unit.

Regulatory Compliance

This product complies with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) as issued by the Commission of the European Community. Compliance with these directives imply conformity with the following European standards:

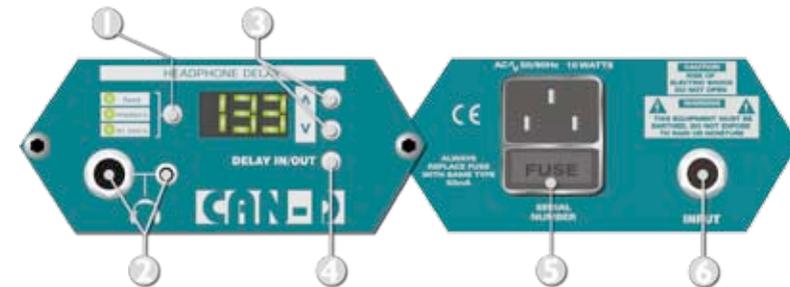
EN60065	Product safety
EN55103-1	Electromagnetic Interference (Emission)
EN55103-2	Electromagnetic Susceptibility (Immunity)

PROTECT YOUR EARS



Exposure to high sound pressure levels can cause irreparable hearing damage. The higher the level, the shorter the period of exposure required to cause damage. Time aligned headphones should allow you to turn down your headphones by around 6dB and receive better intelligibility. Practice safe sound by turning down and, where possible, reducing your exposure to high sound levels.

Controls.



1. Delay Units

Selects the scale used to display the delay setting. Pressing the button cycles through feet, meters and milliseconds. The current format is indicated by its corresponding LED.

2. Headphone Outputs

6.35mm and 3.5mm jack outputs are available. These are paralleled from a single output, so the connection of two pairs of headphones will result in reduced level.

3. Delay Adjust

Adjust delay in increments based on the Delay Units setting.

4. Delay In/Out

Bypasses delay. When the delay is out, the screen will flash “OUT” and show the delay time alternately.

5. Fuse Holder

The fuse holder also acts as a voltage selector, allowing your CAN-D to adapt to the local power conditions. As standard, CAN-D is set to operate at 230V and inverting the fuse holder will select 115V operation.

6. Input

This 6.35mm stereo jack socket works in the usual stereo fashion (Tip Left, Ring Right, Sleeve Common) and should be fed from your console's headphone output.

ATTENUATION

The impedance of your headphones will affect their level. As clever as our boffins are, we cannot predict the impedance of the cans you are about to use, consequently you may have to make some small adjustments to your headphone output.

If you are using particularly low impedance headphones, it may be necessary to attenuate the signal within CAN-D to maintain the usable range of your console's headphone volume control. To do this, hold the Delay Units button until the screen flashes the message "ATT" and a number alternately. This number is the attenuation value, which varies from -1 to -80dB. You can adjust this using the Delay Adjust buttons. To return to normal operation, press the Delay Units button again.

If you're using CAN-D to feed a high impedance input, for example on active loudspeakers, you should not need any attenuation as CAN-D will deliver unity gain from input to output.

Headphones.

The level that you hear from your CAN-D is dependent on the impedance and sensitivity of your headphones. Because of the broad variety of headphone impedances available, the level may differ when connected directly to the source output or via CAN-D.

Headphones with a higher impedance will, in general, be quieter than those with a low impedance. While CAN-D will function with headphones of any impedance, we would recommend headphones with an impedance between 32Ω and 100Ω. This will ensure that your console's volume control operates over a usable range and will also provide the best signal to noise ratio.

When using low impedance headphones, you may need to alter the gain within CAN-D. To do this, see page 9 for information on the Attenuation control.

Specifications.

Connectors

Power input:	IEC
Audio input:	6.35 mm jack socket
Audio output: jack socket	6.35 mm jack socket & 3.5 mm

Audio

Delay	0 to 678 milliseconds 0 to 226 metres 0 to 763 feet
Attenuation	0 to -80dB
Frequency response:	20 Hz-20 kHz (-0.1 dB/+0.1 dB)
Signal to noise ratio:	>98 dB (output load of 70 Ω)
Maximum input level:	+16 dBu
Input impedance	10 kΩ
Maximum output power:	325 mW into 70Ω
THD + noise: kHz)	0.010% (max power into 70Ω, 1

General

Power consumption:	8 VA
Dimensions (mm):	105 W x 185 D x 43 H
Weight:	0.58 kg

Warranty.

Your LA Audio CAN-D has been manufactured to a high standard using quality components. If correctly installed and operated the unit should give years of problem free operation.

However in the event of a defect in material or workmanship causing failure of the unit within 1 year of the date of original purchase we will agree to repair, or at our discretion replace, any defective item without charge for labour or parts. To receive service under this warranty it is necessary to return the unit to an LA Audio authorised service centre or to the factory with a dated receipt as proof of purchase. After repair the unit will be returned to you free of charge.

Limitations:

This warranty does not cover damage resulting from accident or misuse. The warranty is void unless repairs are carried out by an authorised service centre. The warranty is void if the unit has been modified other than at the manufacturers instruction. The warranty does not cover components which have a limited life, and which are expected to be periodically replaced for optimal performance. We do not warrant that the unit shall operate in any way other than as described in this manual.

