



OWNER'S MANUAL

20 BIT DIGITAL TO ANALOG CONVERTER

CONTENTS

<i>SECTION</i>	<i>PAGE</i>
INTRODUCTION	3
MAINS CONNECTIONS	4
FRONT PANEL	5
REAR PANEL	6
OPERATIONAL NOTES	7
WARRANTY	8
WARRANTY REGISTRATION	9
NOTES	10

INTRODUCTION

THANK YOU!...

for choosing the Langevin Digital To Analog Converter. The Langevin Digital To Analog Converter utilizes only the most modern componentry including the decidedly best 20 BIT Ultra Analog (TM) system, precision 1% metal film resistors, and highly regulated power rails. Please take a few moments to read through this manual carefully as it contains information essential to proper operation of this unit.

Thank you again, and please enjoy!

GENERAL NOTES

LOCATION & VENTILATION

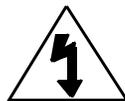
The Langevin DAC must be installed in a stable location with ample ventilation. It is recommended, if this unit is rack mounted, that you allow enough clearance on the top and bottom of the unit such that a constant flow of air can flow through the ventilation vents.

WATER&MOISTURE

As with any electrical equipment, this equipment should not be used near water or moisture. If liquid enters the preamplifier, it must be immediately returned to your dealer for servicing.

SERVICING

The user should not attempt to service this unit beyond that described in the owner's manual. Refer all servicing to Manley Laboratories.



WARNING!



**TO PREVENT THE RISK OF ELECTRIC SHOCK
DO NOT OPEN THE CABINET
REFER SERVICING TO
QUALIFIED PERSONEL**

MAINS CONNECTIONS

Your unit has been factory set to the correct mains voltage for your country. The voltage setting is marked on the serial badge, located on the rear panel. Check that this complies with your local supply.

Export units for certain markets have a moulded mains plug fitted to comply with local requirements. If your unit does not have a plug fitted the coloured wires should be connected to the appropriate plug terminals in accordance with the following code.

GREEN/YELLOW	EARTH	terminal
BLUE	NEUTRAL	terminal
BROWN	LIVE	terminal

As the colours of the wires in the mains lead may not correspond with the coloured marking identifying the terminals in your plug proceed as follows;

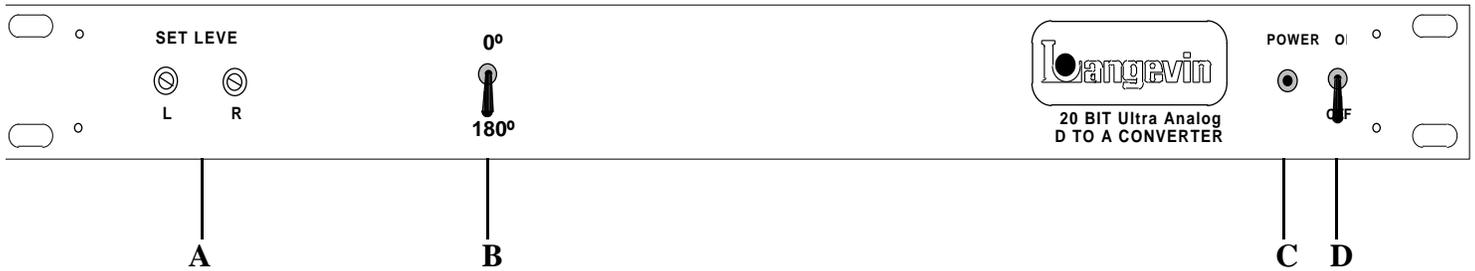
The wire which is coloured GREEN/YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured GREEN or GREEN and YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked by the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked by the letter L or coloured RED.

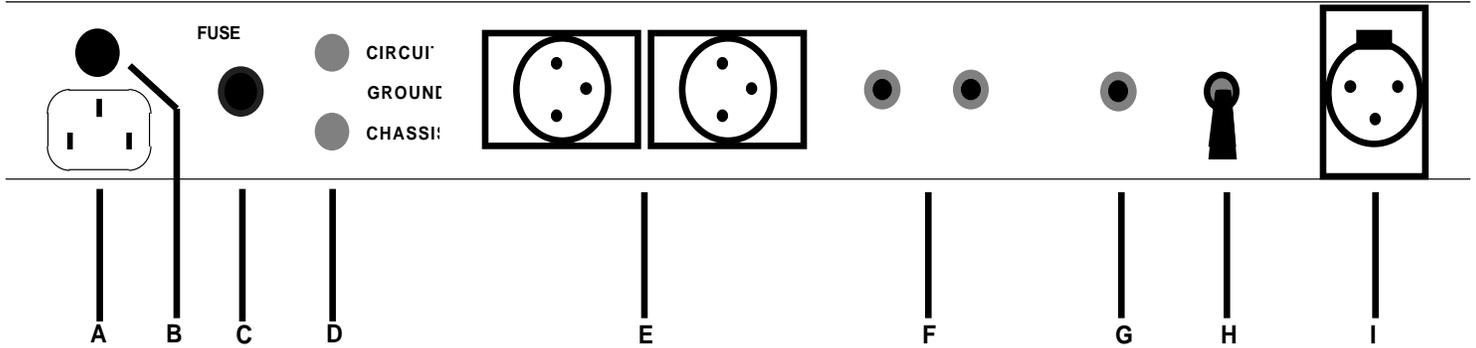
DO NOT CONNECT/SWITCH ON THE MAINS SUPPLY UNTIL ALL OTHER CONNECTIONS HAVE BEEN MADE.

FRONT PANEL



- A GAIN SET** Factory set for a total gain of 8 dB, this control can be adjusted from as little as 3dB of gain to as much as 10dB To increase the volume of the Left channel turn control counter-clock-wise from center position. To increase the volume of the Right channel turn control clock-wise from center position.
- B PHASE SELECT** Select between 0 and 180 degrees phase.
- C POWER LED** Illuminates when unit is powered.
- D POWER SWITCH** Switch up to power ON the unit, down to power OFF the unit.

REAR PANEL



- | | | |
|----------|--|--|
| A | IEC MAINS SOCKET | Accepts standard 50/60 Hz AC mains voltage. |
| B | DAISY CHAIN (If provided) | The incoming AC mains voltage is paralleled via this IEC plug and can power another unit simultaneously. |
| C | FUSE HOLDER | To remove the fuse, push and turn the fuse holder cap. A 1 to 3 Amp SLO-BLO fuse is recommended. |
| D | CIRCUIT, CHASSIS GROUND TERMINALS | Grounding terminal for both chassis and circuit. Connect together to link circuit and chassis grounds, or remove to help isolate ground loops. |
| E | MAIN OUTPUT (XLR) | Pin 2 hot, Pin 1&3 Ground unbalanced XLR output. |
| F | MAIN OUTPUT (RCA) | LEFT (white) and RIGHT (red) amplified outputs of selected input, paralleled output XLR Outputs. |
| G | S/PDIF INPUT | Digital input |
| H | S/PDIF or AES SELECT SWITCH | Selects between S/PDIF and AES Digital inputs |
| I | AES INPUT | Digital input (For digital source equipped with AES outputs. |

OPERATIONAL NOTES

SWITCHING ON

The power switch is located on the right hand corner of the front panel. Flip the switch up to turn on the unit and down to turn off the unit. When powering up or down this unit, it is recommended to have the LANGEVIN DAC muted as to avoid amplifying powering up/down noises which occur as the digital receiver "loses clock" with the digital source. Also, it is recommended to mute the LANGEVIN DAC while changing digital input connections or powering up or down digital sources. Failure to abide by the above recommendations can result in damage to your loudspeakers if these noises are amplified to excessive levels.

CHANGING THE GAIN

Your LANGEVIN DAC has been factory calibrated using precise test equipment for 10dBs of equal gain in both channels. If you wish to change this setting, we recommend using a reference test compact disc and either an oscilloscope if available and/or an AC / VTTM / or DMM meter to measure levels at the output of the DAC. Remember, never play sine wave test tones at high levels through your loudspeakers.

SPECIFICATIONS

WARRANTY

All Manley Laboratories equipment is covered by a limited warranty against defects in materials and workmanship for a period of 90 days from date of purchase to the original purchaser only. A further optional limited 5 year warranty is available to the original purchaser upon proper registration of ownership within 30 days of date of first purchase.

Proper registration is made by filling out and returning to the factory the warranty card attached to this general warranty statement, along with a copy of the original sales receipt as proof of the original date of purchase. Only 1 card is issued with each unit, and the serial number is already recorded on it.

If the warranty registration card has already been removed then this is not a new unit, and is therefore not warranted by the factory. If you believe this to be a new unit then please contact the factory with the details of purchase.

This warranty is provided by the dealer where the unit was purchased, and by Manley Laboratories, Inc. Under the terms of the warranty defective parts will be repaired or replaced without charge, excepting the cost of tubes. No warranty is offered on tubes, unless:

1. a Manley Laboratories preamplifier is used with a Manley Laboratories amplifier, and
2. the warranty registration card is filled out.

In such a case a 6 month warranty on tubes is available with the correct recording of the serial number of the preamplifier on your warranty registration card.

If a Manley Laboratories product fails to meet the above warranty, then the purchaser's sole remedy shall be to return the product to Manley Laboratories, where the defect will be repaired without charge for parts and labour. The product will then be returned via prepaid, insured freight, method and carrier to be determined solely by Manley Laboratories. All returns to the factory must be in the original packing, (new packing will be supplied for no charge if needed), accompanied by a written description of the defect, and must be shipped to Manley Laboratories via insured freight at the customer's own expense. Charges for unauthorized service and transportation costs are not reimbursable under this warranty, and all warranties, express or implied, become null and void where the product has been damaged by misuse, accident, neglect, modification, tampering or unauthorized alteration by anyone other than Manley Laboratories.

The warrantor assumes no liability for property damage or any other incidental or consequential damage whatsoever which may result from failure of this product. Any and all warranties of merchantability and fitness implied by law are limited to the duration of the expressed warranty. All warranties apply only to Manley Laboratories products purchased and used in the USA.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

WARRANTY REGISTRATION

We ask that you please fill out this registration form and send the bottom half to:

MANLEY LABORATORIES
REGISTRATION DEPARTMENT
13880 MAGNOLIA AVE.
CHINO CA, 91710

Registration entitles you to product support, full warranty benefits, and notice of product enhancements and upgrades. You MUST complete and return the following to validate your warranty and registration. Thank you again for choosing to use Manley Laboratories.

MODEL _____ SERIAL No. _____

PURCHASE DATE _____ SUPPLIER _____

PLEASE DETACH THIS PORTION AND SEND IT TO MANLEY LABORATORIES

MODEL _____ SERIAL No. _____

PURCHASE DATE _____ SUPPLIER _____

NAME OF OWNER _____

ADDRESS _____

CITY, STATE, ZIP _____

TELEPHONE NUMBER _____

Serial #'s of Associated Manley Laboratories Equipment _____

NOTES