

Installation Instructions

LTC Demux Module

DMX 512 to 24 channel +10 volt analogue demultiplexing module. Stock number 00-578-00.

The LTC Outer Cabinet installation instructions (stock number 73-369-00) are supplied with the outer cabinet.

Zero 88 Lighting Ltd. reserves the right to make changes to the equipment described in this manual without prior notice.

This equipment is designed for professional stage lighting control, and is unsuitable for any other purpose. It should be used by, or under the supervision of, appropriately qualified or trained persons only.

E&OE

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Usk House,
Llantarnam Park,
Cwmbran,
Gwent NP44 3HD,
U.K.

Tel: +44 (0)1633 838088
(24 Hr Answer Phone)

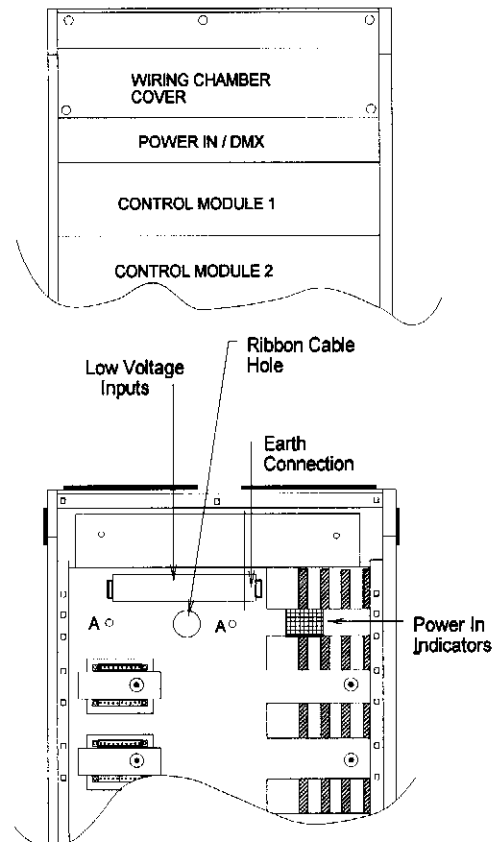
Fax: +44 (0)1633 867880

Warning

Ensure the Mains supply is disconnected before starting

Fitting the Demux module

- 1 Isolate all mains power from the cabinet.
- 2 Remove the wiring chamber cover.
- 3 Remove the front panel below the wiring chamber
- 4 Offer up the display module to the cabinet, place the ribbon cable through the hole (as indicated in the diagram opposite).
- 5 Screw the display module in position, using the two screws provided, into fixing holes marked "A".
- 6 Pull the ribbon cable up through the rectangular hole in the wiring chamber.
- 7 Plug the ribbon cable into the main PCB taking care with orientation (there is only one connector it will fit).
- 8 Lower the main module into the cabinet with the PCB components towards the front of the cabinet.
- 9 Fix the main module into the cabinet with the two screws provided.
- 10 Plug the IEC mains lead (that is all ready connected to the cabinet) in to the module.
- 11 Fit new Front Panel.
- 12 Connect DMX signals (see next page).
- 13 Connect low voltage analogue input signals (see next page).
- 14 Re-fit wiring chamber cover.
- 15 Re-connect mains supply and test.



Installation Instructions

DMX connections.

The Main module is fitted with two XLR 5 connectors to provide a DMX IN connection and a DMX THRU connection.

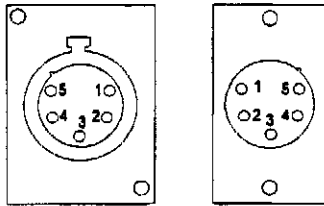
DMX IN is via the male connector

DMX THRU is via the female connector.

Pin outs are shown in the following Drawings.

- Pin 1 = 0V Signal common
- Pin 2 = -1 Dimmer drive complement
- Pin 3 = +1 Dimmer drive true
- Pin 4 = Not connected
- Pin 5 = Not connected

XLR 5 pin layouts



Cables for DMX transmission.

The maximum cable length between desk and the Demux module will depend on several factors including:

- ◆ Type of cable used
- ◆ Number of demultiplexors connected to the Line
- ◆ Electrical environment

Zero 88 recommend that shielded twisted pair approved for RS422/485 (e.g. Belden 9841 or Alpha 5271 is used.

Communication over one hundred meters should normally be possible without problems, however for longer table runs, it may be necessary to fit a DMX termination plug (stock number 00-269-00) to the last DMX module in order to ensure completely error free data transmission.

Substitution of microphone, or other types of cable may be possible, but data transmission errors are more likely, particularly over long distances.

Low voltage analogue control connections.

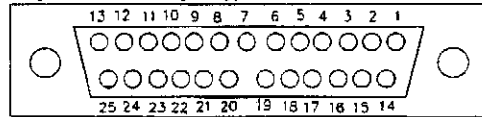
The Demux module is supplied with a pre-wired 25 way "D" type connector to allow connection of the Demux module analogue outputs to the cabinet's analogue inputs.

All cable within the wiring chamber MUST have mains rated insulation, as fitted to the pre-wired "D" type connector.

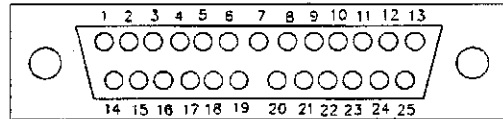
Pin numbers are as follows.

- Pin 1 = Channel 1
- Pin 2 = Channel 2
- Pin 3 = Channel 3
- etc
- etc
- Pin 23 = Channel 23
- Pin 24 = Channel 24
- Pin 25 = 0 Volt.

The pin layout of a 25 way D type is as follows.

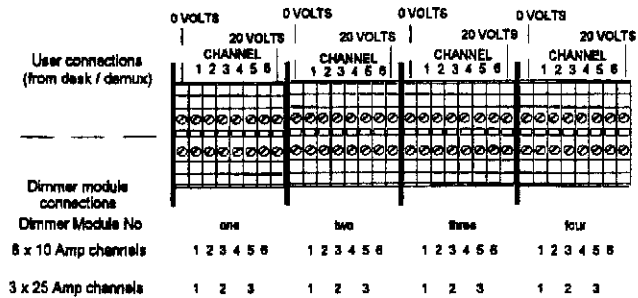


25 way D type
Female front view.



25 way D type
Male front view.

Low voltage control input connector layout.



If one or all of the modules are 3 channel 25 amp then some of the wires from the Demux module and some of the the voltage control input terminals will not be used.

Powering up.

When powered up the display will cycle through its leds and displays. Before finally displaying the start address for the unit.

The factory default is 001.

If there are other DMX receivers on the same line it will be necessary to change the start address.

This is done by holding down the SET CHANNEL button while pressing the Δ or ▽ button to move the start address up or down. For more details of operation refer to the user information.