

Output channels (relative to start address set on dip switches)

1-4	Output 1
5-8	Output 2
9-12	Output 3
13-16	Output 4
17-20	Output 5
21-24	Output 6
25-28	Output 7
29-32	Output 8
33-36	Output 9
37-40	Output 10
41-44	Output 11
45-48	Output 12
49-52	Output 13
53-56	Output 14
57-60	Output 15
61-64	Output 16

Outputs 9-16 only on 16-output unit

Specifications

Control protocol: DMX512 (32 channels occupied for 8 way, 64 channels for 16 way)

DC output to LMC-08: 12V unregulated

Connector pinouts

4 way RJ11 connector for LMC08 input

Pin 1 GND

Pin 2 DMX+

Pin 3 DMX-

Pin 4 +12V (unreg)

Pin 1 is the pin nearest the LEDs

8 way RJ45 connector to LED heads

Pin 1 Common

Pin 2 Signal 1

Pin 3 Signal 2

Pin 4 Signal 3

Pin 5 Signal 4

Pin 6 Common (7+8 unused)

AbstractAVR Ltd 2000 Tel:0116 278 8078

<http://www.abstractavr.com>

AVR

8 and 16 way LED driver

Connecting up

First install the Ledion lighting units in the desired location, then connect them to the LMD-08 or LMD-16 driver units using the 6-way flat cables.

Each output of the LMD-08 can control the following:

- Four 300x300 panels
- Two “hi-lux” 300x300 panels
- Two standard 600x600 dancefloor panels
- One “hi-lux” 600x600 dancefloor panel
- Eight 24-LED round downlighters
- Four 48-LED round downlighters
- Two 96-LED round downlighter

Each output of the LMD-16 can control the following:

- Two 300x300 panels
- One “hi-lux” 300x300 panel
- One standard 600x600 dancefloor panel
- Four 24-LED round downlighters
- Two 48-LED round downlighters
- One 96-LED round downlighter

Do not exceed this loading as the unit may be damaged.

Install a mains power feed to the LMD unit.

If your installation includes several LMD units, you can control them all together by linking them using 3-pin XLR cables. The cables should be plug-to-socket, wired straight through.

System controllers

The system may be controlled using a LMC-08 programmable controller, or any other lighting controller using the DMX control standard. It can also run stand-alone with no controller. The LMC-08 controller can only control the first 8 outputs of the LMD-16 unit.

If you use a LMC-08 control unit, connect it to the first LMD unit in the line (the one with a free DMX input plug) using a 4-way cable into the socket farthest from the LEDs.

The LMC-08 takes power from the driver box and does not need a power supply.

If you are using a standard DMX controller, connect it to the first LMD unit in the line (the one with a free DMX input plug). The wiring of the DMX signal should be ground on pin 1, “Hot” signal on pin 2, “Cold” signal on pin 3.

Setting dip switches

The LMD unit has dip switches which allow you to set the DMX start address of the unit. The start address may be set at any channel from 1 to 511.

In addition you can set **stand alone modes** using the dip switches:

Switches 8, 9 and 10 on = White test mode (all on)

Switch 9 and 10 on = Self test mode

Switch 10 on, plus one of switches 1-7 = continuous scroll 1=fastest, 7=slowest. If switch 8 is turned on, a rainbow scroll will be produced where each output shows a slightly different colour of the rainbow.

You can lock the current colour by turning off switches 1-8 (i.e. 10 only on). The output will lock at the current colour. The box will remember this colour and the next time it is turned on, will come back to that colour.

You must set the switches with the power off. The LMD will not recognise any changes to the switches when the power is on.

Testing the units

The red light on the unit indicates power to the unit is OK. The green light indicates that DMX data is being received OK.

If you are using the LMC-08 controller, the green light should be on.

DMX control

The unit recognises the following DMX commands for each output channel:

Base	Red
Base+1	Green
Base+2	Blue
Base+3	Dimmer