www.prolight.co.uk

# Eco LED 56 Cans

Order code: LEDJ06 - Black
Order code: LEDJ07 - Polished

## USER MANUAL

**WARNING**

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!**

**CAUTION!**

**Keep this equipment away from rain, moisture and liquids.**

## SAFETY INSTRUCTIONS

Every person involved with the installation, operation & maintenance of this equipment should:

- Be competent
- Follow the instructions of this manual

**CAUTION! TAKE CARE USING THIS EQUIPMENT!**
**HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!**

Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, consult your dealer and do not use the equipment.

To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.

Please note that damages caused by user modifications to this equipment are not subject to warranty.

**IMPORTANT:**

**The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.**

- Never let the power-cable come into contact with other cables. Handle the power-cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not connect this equipment to a dimmer-pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available voltage is between 220v/240v.
- Make sure that the power-cable is never crimped or damaged. Check the equipment and the power-cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately. Have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- WARRANTY; One year from date of purchase.

**OPERATING DETERMINATIONS**

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void.

Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks, lamp failure etc.

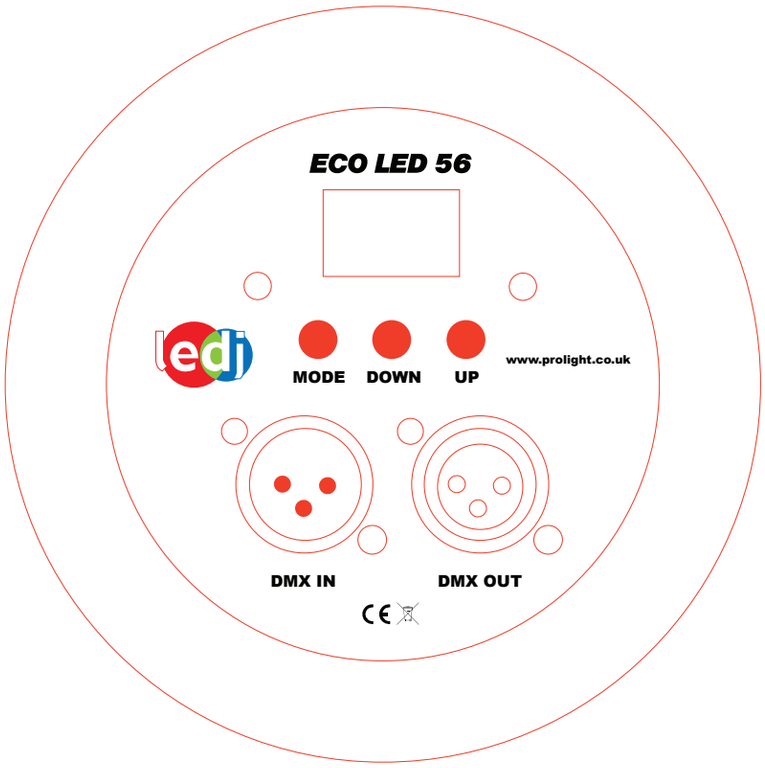
Do not endanger your own safety and the safety of others!
Incorrect installation or use can cause serious damage to people and property.

## Introduction

### CONTROL FEATURES
- 3/6-channel DMX
- Blackout/Dimmer/Strobe
- Individual control of Red, Green and Blue LEDs

### Features
- 151 LEDs: - Red (51), Green (49), and Blue (51)
- Ultra Bright 5mm LEDs
- Sound control via internal microphone
- Colour change speed and strobe effect adjustable via control panel
- Multi-colour changes
- RGB Colour mixing
- Master/Slave functions
- Sound activated
- Rugged compact housing
- Consumption: 30W
- Beam angle: 25 degrees
- Long life LEDs

## Product Overview




## Setup

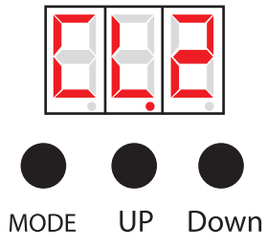
## Operating Instructions

The Eco LED 56 Can is a DMX-512 controllable, full RGB colour mixing spot made up of high efficiency and super bright 5mm LED's. There are three colour groups (red, green and blue) whose intensity can be controlled individually allowing the creation of an unlimited range of colours.

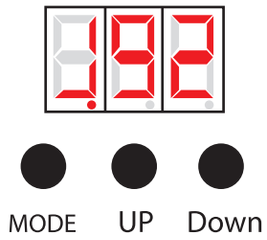
The Stratos will operate in Stand-alone, Master/Slave, Sound activated and via DMX-512 control.

**Programme Selection:**

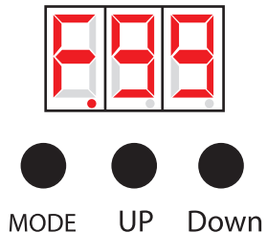
**Static Colour Mode:**
Press the mode button and use the up and down buttons to select one of the 7 desired colours.
1, Red 2, Green 3, Blue 4, Yellow 5, Cyan 6, Purple 7 White



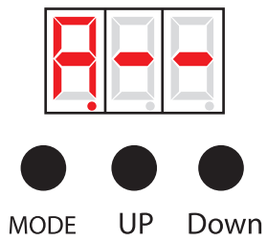

**Colour Changing Mode**
Press the mode button to select the Colour Change programme. The unit will then run in Colour change mode. Press the up and down buttons to select the colour change speed from 0-99.



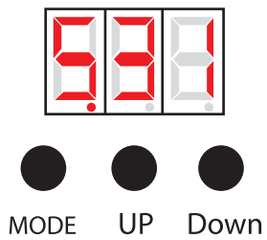

**Colour Fading Mode:**
Press the mode button to select Fade mode. The unit will then run in colour fade mode. Press the up and down buttons to select the fade speed from 0-99.



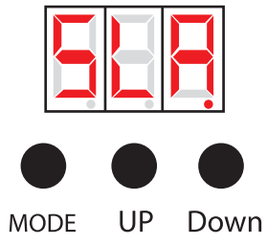

**Auto Running Mode:**
Press the mode button to select Auto mode. The unit will then run automatically through all of the built-in programmes. The run speed can be pre-set via the speed of the colour change and colour fade modes.




**Sound Active Mode:**
Press the mode button to select sound mode. The unit will then run via the sound. Press the up and down buttons to adjust the sound sensitivity levels.



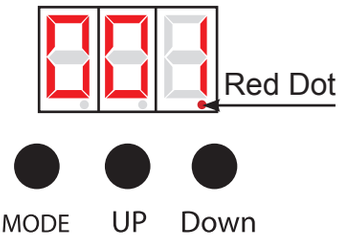

**Master/Slave Mode:**
Link the units together and press the mode button of the slave units to **SLA** mode. The slave units will follow in sequence with the master unit.



**DMX Control Mode:**

The Eco LED 56 can has two DMX modes to choose from, 3 channel or 6 Channel.

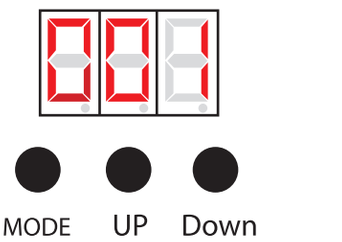
To access the 3 Channel mode, press the mode button to show a red dot illuminated under the first digit of the DMX address. The unit is now ready for use in 3 channel mode




3CH DMX Mode:

| CHANNEL | VALUE | FUNCTION |
|---|---|---|
| CH1 | 000-255 | RED (0-100%) |
| CH2 | 000-255 | GREEN (0-100%) |
| CH3 | 000-255 | BLUE (0-100%) |

To access the 6 Channel mode, press the mode button to show **NO** red dot under the first digit of the DMX address. The unit is now ready for use in 6 channel mode




6CH DMX Mode:

| CHANNEL | VALUE | FUNCTION |
|---|---|---|
| CH1 | 000-255 | RED (0-100%) |
| CH2 | 000-255 | GREEN (0-100%) |
| CH3 | 000-255 | BLUE (0-100%) |
| CH4 | 0-7<br>8-255 | No function<br>Colour macro mixing |
| CH5 | 0-16<br>17-255 | No function<br>Strobe/Speed Adjust/Sound Sensitivity Adjust |
| CH6 | 0-31<br>32-95<br>96-159<br>160-233<br>244-255 | No function<br>Colour mixing<br>RGB colour change<br>7 colour change<br>Sound activation |

To change from 3 channel to 6 channel mode, press **ONLY** the mode button repeatedly until you return to the DMX control mode.

Daisy Chain Connection

1) Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture
2) Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Proceed to connect from the output as stated above to the input of the following fixture and so on.

**DMX-512:**
• DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions form the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a data “out” terminal).

**DMX Linking:**
• DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

**DATA Cable (DMX cable) requirements (for DMX operation):**
• The Eco LED 56 Can can be controlled via DMX-512 protocol. The DMX address is set on the back of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input/output (figure 1).

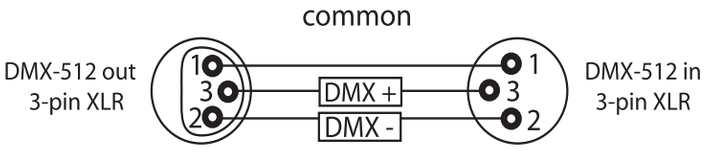
**Figure 1**

Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight dealers.
Please quote:
CABL10 – 2M
CABL11 – 5M
CABL12 – 10M

**Also remember that DMX cable must be daisy chained and cannot be split.**

**Notice:**

• Be sure to follow figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.



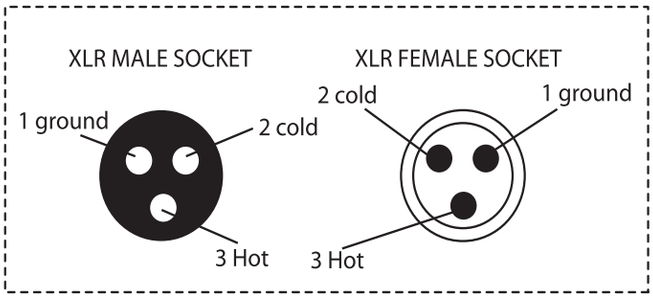



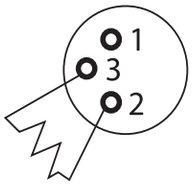

FIGURE 3

| XLR Pin Configuration |
|---|
| Pin 1 = Ground |
| Pin 2 = Negative |
| Pin 3 = Postive |

FIGURE 2

**Special Note: Line termination:**

• When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

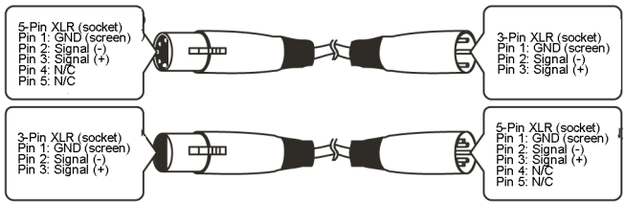



Termination reduces signal transmission problems and interferance. it is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4 W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.

**Using a cable terminator (part number CABL90) will decrease the possibilities of erratic behaviour.**

**5-Pin XLR DMX Connectors:**

• Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-Pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The chart below details the correct cable conversion.



## Technical Specifications

**Weight & Dimensions**

- **Length…..169mm**
- **Width..... 203mm**
- **Height…….213mm**
- **Weight…….1.4kgs**

**Power**

- **AC input……..... 240V/50hz**

**Fuse**

- **Main……..... 20mm Glass 0.5A Fast Blow**

**Control & Programming**

- **Data input…….....Locking 3-pin XLR male socket**
- **Data output…….....Locking 3-pin XLR female socket**
- **Protocols ……..... DMX-512 USITT**
- **DMX channels……..... 3/6 selectable**