Stellar Labs™

# ECO LED PAR39
# Model #555-11407

**USER MANUAL**

Distributed Exclusively By:
MCM Electronics
www.mcmelectronics.com

# WARNING

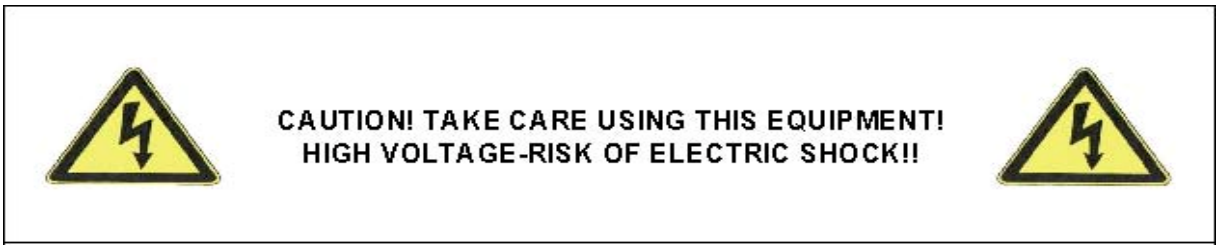
FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!


SAFETY INSTRUCTIONS

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

-Be competent

-Follow the instructions of this manual




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 unauthorized 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 110~120VAC.
- 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 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:

There are multiple modes in which this light may operate depending upon the specific needs of the user. These include Stand-alone, DMX master and DMX slave.

In stand-alone mode, the lamp may be set to automatically scroll through various color change patterns, at user selected speeds, with user selected fade, or to strobe a user specified color and rate. An internal microphone also allows sound-activated mode, allowing the color change to be synchronized to music.

If multiple lamps are used, they may all be set to stand-alone mode above, and each will operate completely independently, with independent rates and color changes. However, in multi lamp setups, it is often desirable to have all lamps operating together; scrolling, strobing or fading between colors in unison. In this case, the lamps may be connected together, using specified 3-pin DMX cables, with the first lamp set in automatic mode, and as the DMX master, with all subsequent lamps set as the DMX slave.

For even more complex setups, a separate DMX controller may be used, enabling complex combinations of fades, strobes, chases and other effects. In this case, all lamps would be set in DMX slave mode, with the DMX controller set as the DMX master.

All Stellar Labs LED PAR lamps utilize industry standard DMX-512 protocols, and are compatible with any such DMX controllers and lighting devices.

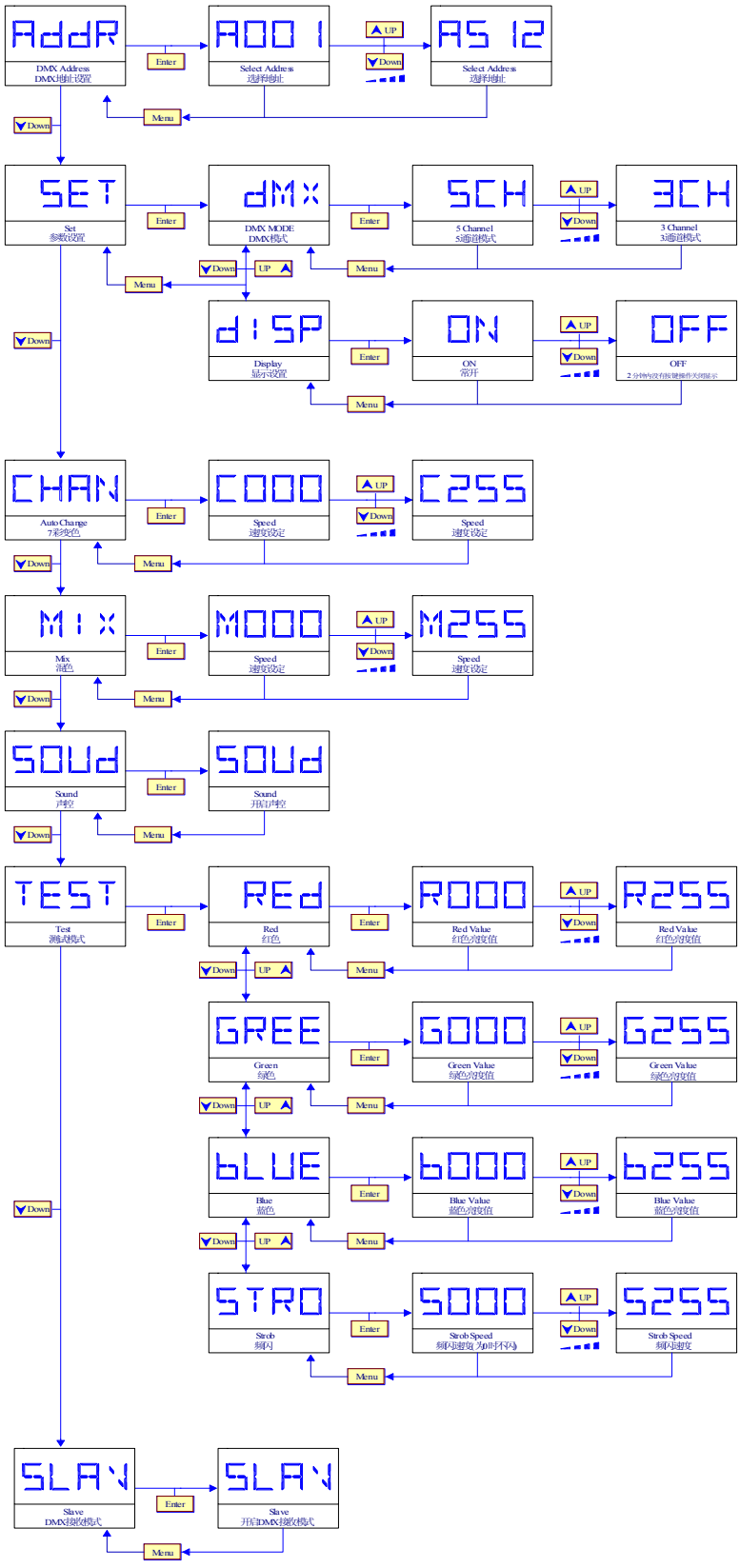
# Installation:

Lighting fixtures may be mounted in any angle or desired arrangement. Thankfully, LED lighting not only uses considerably less power (less than 20W), but give off virtually no heat, greatly increasing flexibility and use. Lamps are equipped with a 3-prong grounded cord, and should be connected only to appropriate grounded AC outlets. If using multiple lamps in a DMX controlled setup, only appropriate 3-pin DMX cables should be used. Using microphone or other similar cable may cause erratic and unpredictable results. Also, when connecting multiple DMX lamps in a chain, a DMX terminator should be placed at the end of that chain to ensure reliable operation. All DMX cables, terminators, light stands and specially designed AC outlet strips are available at MCM Electronics, as well as a variety of other music and lighting suppliers.

# Menu:

The following flow chart shows the menu arrangement for programming the lamp for a desired operation mode. The terminology and layout of this menu is typical of most DMX controlled lighting products, and experienced users will merely need to refer to this for any information needed. However, if you are new to DMX control, some simple setup instructions following the menu will prove helpful.

**Note:** viewing this manual electronically from www.mcmelectronics.com will allow zooming in on the following chart, making some symbols more readable.


AddR
DMX Address
DMX地址设置
Enter
A001
Select Address
选择地址
UP
Down
A512
Select Address
选择地址
Menu
Down
SET
Set
参数设置
Enter
dMX
DMX MODE
DMX模式
Enter
5CH
5 Channel
5通道模式
UP
Down
3CH
3 Channel
3通道模式
Menu
Down
UP
Menu
diSP
Display
显示设置
Enter
ON
ON
常开
UP
Down
OFF
OFF
2 分钟内没有按键操作关闭显示
Menu
Down
CHAN
Auto Change
7彩变色
Enter
C000
Speed
速度设定
UP
Down
C255
Speed
速度设定
Menu
Down
MIX
Mix
混色
Enter
M000
Speed
速度设定
UP
Down
M255
Speed
速度设定
Menu
Down
SOUd
Sound
声控
Enter
SOUd
Sound
开启声控
Menu
Down
TEST
Test
测试模式
Enter
REd
Red
红色
Enter
R000
Red Value
红色亮度值
UP
Down
R255
Red Value
红色亮度值
Down
UP
Menu
GREE
Green
绿色
Enter
G000
Green Value
绿色亮度值
UP
Down
G255
Green Value
绿色亮度值
Down
UP
Menu
bLUE
Blue
蓝色
Enter
b000
Blue Value
蓝色亮度值
UP
Down
b255
Blue Value
蓝色亮度值
Down
UP
Menu
STRO
Strob
频闪
Enter
S000
Strob Speed
频闪速度 为0时不闪
UP
Down
S255
Strob Speed
频闪速度
Menu
Down
SLAV
Slave
DMX控制模式
Enter
SLAV
Slave
开启DMX控制模式
Menu

# Basic Setup:

For new users, the following should prove helpful. It will take you through the steps of setting the lamp for automatic or sound activated mode, with information on setting one unit as the master controller, with multiple units connected, operating in unison with that control.

**Steps for use:**

Connect the LED PAR lamp to a suitable AC power source. The LED display will read: **AddR**

| | |
|---|---|
| Press the ↓button one time, the LED will read: | **SET** |
| Press the **OK** button, the LED will read: | **DMX** |
| Press the **OK** button again, the LED will read: | **3CH** |
| Press the OK button, the LED will still read: | **3CH** |
| Press the **M** button twice, the LED will read**:** | **SET** |

The unit is now set as a three channel DMX master controller

| | |
|---|---|
| Press the ↓button one time, the LED will read: | **CHAN** |
| Press the ↓button one time, the LED will read: | **MIX** |
| Press the ↓button one time, the LED will read: | **SOUd** |
| Press the **OK** button, the LED will read: | **SOUd** |

There will be a small blinking dot on the lower right side of the LED display.

The unit is now in sound activated mode. Tapping the unit with your finger will cause it to randomly change color. The microphone will now pick up sounds within the room, such as music, causing the unit to change colors to the beat of the music.

This unit is set as the DMX master, and is in sound activated mode. You may connect additional lamps to slave from this, by utilizing the female 3-pin DMX output connection. Using a suitable DMX cable, connect this 3-pin output to the 3-pin input of a second lamp and set that lamp to slave mode, it will follow exactly the color changes of the first lamp.

**Steps for setting lamp to slave mode:**

Connect the LED PAR lamp to a suitable AC power source. The LED display will read: **AddR**

| | |
|---|---|
| Press the ↓button one time, the LED will read: | **SET** |
| Press the ↓button again, the LED will read: | **CHAN** |
| Press the ↓button again, the LED will read: | **MIX** |
| Press the ↓button again, the LED will read: | **SOUd** |
| Press the ↓button again, the LED will read: | **TEST** |
| Press the ↓button again, the LED will read: | **SLAV** |
| Press the **OK** button, the LED will read: | **SLAV** |

This unit is now in slave mode, and will copy the action of the first unit in the chain.
You are now at the end of the address list, pressing the ↓button again will revert back to the **AddR** position on the menu. The ↓and ↑ buttons may be used to scroll up and down on the menu. If this second lamp is the only other to be used, a DMX terminator should be connected to the 3-pin female DMX output connector. If additional lamps are to be used, they should be set to slave mode, and connected exactly as shown above, with the terminator placed at the end of the chain.

## Other self-contained modes:

Besides the above sound activated mode, the master unit may also be set to automatically scroll through its available colors. This may be done with hard changes from color to color, or gradual fades, both with varying speeds. To see this in action, use the following steps:

Use the ↓and ↑ buttons to scroll the menu display to the **AddR** position.
Press the ↓button one time, the LED will read: **SET**
Press the ↓button again, the LED will read: **CHAN**
Press the OK button, the display will still read: **CHAN**

The display should now show a number between **C000** and **C255**

The lamp should now be automatically scrolling through multiple colors. There will be a small dot illuminated on the lower right side of the LED display.

The displayed number represents the rate in which the lamp automatically changes color, **000** the slowest and **255** the fastest. Use the ↓and ↑ buttons to adjust this setting. Once the desired setting is obtained, press the **OK** button.

In this mode, you will see the lamp is making "hard" changes from one color to the next. It may be desirable for the lamp to make gradual blend changes between colors. This is easily accomplished as follows.

Press the **M** button to revert back to the master menu. The menu should read **CHAN.** If not**,** Use the ↓and ↑ buttons to scroll the menu until **CHAN** appears.

Press the ↓button one time, the LED will read: **MIX**
The display should now show a number between **M000** and M**255**

Use the ↓and ↑ buttons to select a setting between **000** and **255**, this will control how fast the lamp blends from one color to the next, 255 being the highest rate. Once the desired setting is obtained, press the **OK** button.

Much like the sound activated mode, the lamp will now act as a self contained device, or as a DMX master, controlling others connected after it in a DMX chain.

## General Menu Explanation:

It will be necessary to set this lamp to specific DMX address locations for use with complex DMX controllers. Additionally other information will be needed to identify the operation of this lamp with used in a chain with non-similar DMX devices. The following is intended to provide detail on these items, as well as a general explanation of each of the menu settings.

| Menu Display | |
|---|---|
| **AddR** | This allows setting of the first DMX channel of the lamp. This may be set to any DMX address from 001 to 512. |
| **SET** | **DMX**<br>This allows the unit to be set in either 3-channel or 5-channel DMX mode.<br>Available settings are 5CH and 3CH |
| | **dISP**<br>This allows the LED display to be turned off after setup is complete. This is ideal in situations where visibility of the display in a dark setting may be undesirable.<br>Available settings are **ON** and **OFF** |
| **CHAN** | This allows setting of the rate change for hard color changes<br>Available settings are **C000** ~ **C255** |
| **MIX** | This allows setting of the rate change for color blends<br>Available setting are **M000 ~M255** |
| **SOUd** | This setting turns the sound activation on<br>Sole available setting is **SOUd** |
| **TEST** | This allows testing of all brightness levels of each available LED color. This is useful for periodic testing of the lamp for burned out LED's.<br>This may also be used if a lamp is to be used as a simple fixed color of virtually any color |
| | **REd**<br>This allows any brightness setting of the red LED's.<br>Available settings are **R000 ~ R255** |
| | **GREE**<br>This allows any brightness setting of the green LED's.<br>Available settings are **G000 ~ G255** |
| | **bLUE**<br>This allows any brightness setting of the blue LED's.<br>Available settings are **B000 ~ B255** |
| | Note that any of the colors above may be blended to provide virtually any desired output color |
| | **STRO**<br>This will put the lamp in strobe mode, flashing the color that was selected in the steps immediately above.<br>Available settings are **S000 ~ S255** |
| **SLAV** | This places the lamp in slave mode.<br>Sole available setting is **SLAV** |

When all lamps are to be externally controlled by a DMX controller, the following information will be helpful

When set as to DMX 5-channel mode:

| CH1 | CH2 | CH3 | CH4 | CH5 |
|---|---|---|---|---|
| RED | GREEN | BLUE | MODE | Speed/Strobe |
| 0~255 | 0~255 | 0~255 | 0-31=color Setting<br>32-63=Fade Out<br>64-95=Fade In<br>96-127=Fade In Out<br>128-159=Auto Mix<br>160-191=3 Colour Chase<br>192-223= 7 Colour Chase<br>224-255=Sound Action | 0-15=OFF<br>16-255=Strobe<br>0-255=Speed |

When set to DMX 3-channel mode:

| CH1 | CH2 | CH3 |
|---|---|---|
| RED | GREEN | BLUE |
| 0~255 | 0~255 | 0~255 |

## Technical Specification

| | |
|---|---|
| Number of LED's | 60 tri-color each red/green/blue |
| Power supply | 120VAC, 60Hz |
| Power consumption | 14W |
| Dimensions | 5-1/2" x 5-1/2" x 5" |
| Weight | 2 lbs, |

## Warranty

MCM Custom Audio and Stellar Labs products are warranted, by MCM Electronics, against manufacturer defects for a period of two years from the original date of purchase. This warranty is limited to manufacturer defects, in either materials or workmanship. MCM Electronics, or any other worldwide divisions of Premier Farnell PLC, are not responsible for any consequential or inconsequential damage to any other component, structure or the cost of installation or removal of said items.

For questions or specific information regarding warranty replacement or repair, contact:

MCM Electronics
www.mcmelectronics.com
800-543-4330