

**LED 7x40W**  
**RGBW Bee Eye BSW**  
**Moving Head Light**

Item Number: LL740E

**USER MANUAL**



This user manual includes important information for installation and operation. Please read this user manual carefully to install, operate, and maintain the lighting safely and correctly. A verified technician should do the installation and operation.

Please carefully check for any damages caused by transportation.

Before delivery, this device has passed strict quality control and inspection. Please follow the user manual for proper operation. If this fixture is damaged due to operation error or disregard of this manual, the fixture will be out of warranty, and the manufacturer or dealer will not be held responsible.

### **Installation:**

This unit is for indoor use only. Use only in a dry location. To prevent or reduce the risk of electrical shock or fire, do not expose to rain or moisture.

Maximum ambient temperature for operation is 104°F. Do not operate the unit at a higher ambient temperature as the surface temperature of the unit can reach up to 185°F. Do not touch the housing of the unit during operation as this could result in serious injury. Turn off the power and allow 15 minutes for the unit to cool down before handling. Do not open the unit within five minutes after switching off.

Keep the fixture at least 1.5ft. away from any combustible material, as it is not suitable for direct installation on these surfaces. The unit must be installed in a location with adequate ventilation, at least 50 cm from adjacent surfaces. Ensure that no ventilation slots are blocked.

We advise that an electrician confirms the safety of the electrical data prior to installation. Power off the fixture before installation or maintenance. Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

**Rigging:**

Only lift the unit by its base, not the head. The unit should be mounted via its screw holes on the bracket and firmly fixed to avoid vibration and slipping while operating.

The truss used for hanging this fixture must be able to hold 10 times the weight of this fixture without deformation one hour after installation. Always use a safety cable that can hold 12 times the weight of the unit. Do not stand directly under the fixture while installing, uninstalling or adjusting the fixture.

**Product Specifications:**

Voltage: 100-240V, 50/60HZ

Power Socket: PowerCon in/out

Power Consumption: 250W

Average lifespan: 50,000 hours

DMX Channel: 21/24/32/60 CH

Pixel Control

Beam Angle: 3.5° - 45°

Pan/Tilt: 540°/ 270°

Pan/Tilt Resolution: 8/16 bit

Display: LCD Display

Control Mode: DMX512/Primary-Secondary/Auto Run/Music/RDM

Strobe: 1-23Hz or random strobe

Dimming: 0% - 100%

DMX Connector: 3-pin XLR input/output

IP Rating: IP20

Working temperature: 14° - 113°F

Net Weight: 12.13 lbs.

Dimensions: 10 x 7.5 x 14 in. (Width x Depth x Height)

**Display Menu:**

*MENU* Key: Press to confirm selected functions.

*UP* Key: Press to go forward in selected functions.

*DOWN* Key: Press to go backward in selected functions.

*ENTER* Key: Press to confirm the selected functions.

**DMX Address Code:**

|   |         |                  |                         |  |
|---|---------|------------------|-------------------------|--|
| 1 | Address | Address 001- 512 | Address setting 001-512 |  |
| 2 | Mode    | DMX512           | Console control         |  |
|   |         | Auto             |                         |  |
|   |         | Sound            |                         |  |
|   |         |                  | Pan:0-255               |  |
|   |         |                  | Tilt:0-255              |  |

|  |  |        |              |             |
|--|--|--------|--------------|-------------|
|  |  | Manual | Focus:0-255  | Select Mode |
|  |  |        | Red:0-255    |             |
|  |  |        | Green:0-255  |             |
|  |  |        | Blue:0-255   |             |
|  |  |        | White:0-255  |             |
|  |  |        | Strobe:0-255 |             |
|  |  | 21CH   |              |             |

|    |           |                              |                                   |                                  |
|----|-----------|------------------------------|-----------------------------------|----------------------------------|
| 3  | Channel   | 24CH                         |                                   | Select Channel Mode              |
|    |           | 32CH                         |                                   |                                  |
|    |           | 60CH                         |                                   |                                  |
| 4  | Invert    | Pan Invert      1.NO, 2.YES  |                                   | Pan forward and reverse setting  |
|    |           | Tilt Invert      1.NO, 2.YES |                                   | Tilt forward and reverse setting |
| 5  | Sound     | 0 - 100                      |                                   | Sound sensitivity                |
| 6  | Degree    | 1.540, 2.360                 |                                   |                                  |
| 7  | No signal | Black out                    | Hold                              |                                  |
| 8  | Fan set   | Auto, High, Low              |                                   |                                  |
| 9  | Reset     | No                           | Reset                             |                                  |
|    |           | Yes                          |                                   |                                  |
| 10 | Default   | Yes                          | Factory setting                   |                                  |
|    |           | No                           |                                   |                                  |
| 11 | Inform    | Soft V1.0                    | Show the version number           |                                  |
|    |           | Temp /°C                     | Show the temperature of LED board |                                  |
|    |           | Password                     | -----                             |                                  |

|    |        |        |                         |  |
|----|--------|--------|-------------------------|--|
| 12 | Adjust | Pan    | 0-255Pan fine control   |  |
|    |        | Tilt   | 0-255Tilt fine control  |  |
|    |        | Focus  | 0-255 Zoom fine control |  |
|    |        | Rotate | 0-255                   |  |
|    |        | Red    | 0-255                   |  |
|    |        | Green  | 0-255                   |  |

|  |  |       |       |  |
|--|--|-------|-------|--|
|  |  | Blue  | 0-255 |  |
|  |  | White | 0-255 |  |

## DMX Channel Functions and Values:

### 21 Channel Mode

| Channel | Function                 | Description                                  | Value     |
|---------|--------------------------|----------------------------------------------|-----------|
| Ch 1    | Red                      | Red dimming                                  | 0 - 255   |
| Ch 2    | Red adjustment           | Red adjustment                               | 0 - 255   |
| Ch 3    | Green                    | Green dimming                                | 0 - 255   |
| Ch 4    | Green adjustment         | Green adjustment                             | 0 - 255   |
| Ch 5    | Blue                     | Blue dimming                                 | 0 - 255   |
| Ch 6    | Blue adjustment          | Blue adjustment                              | 0 - 255   |
| Ch 7    | White                    | White dimming                                | 0 - 255   |
| Ch 8    | White adjustment         | White adjustment                             | 0 - 255   |
| Ch9     | Linear Color Temperature | No function                                  | 0 - 4     |
|         |                          | Color temperature from warm to cold          | 5 - 255   |
| Ch 10   | Macro color              | No function                                  | 0 - 9     |
|         |                          | Macro color 1                                | 10 - 19   |
|         |                          | Macro color 2                                | 20 - 29   |
|         |                          | ....(10 numbers 1 macro color)               | ....      |
|         |                          | Macro color 19                               | 190 - 199 |
|         |                          | Macro color 20                               | 200 - 255 |
| Ch 11   | Dimmer                   | dark to bright linear dimming                | 0 - 255   |
| Ch 12   | Dimmer adjust            | Dimmer adjustment control                    | 0 - 255   |
| Ch 13   | Strobe                   | Turn on the light                            | 0 - 3     |
|         |                          | Synchro strobe speed slow to fast (1HZ-25HZ) | 4 - 203   |
|         |                          | Random strobe                                | 204 - 255 |
| Ch 14   | Pan                      | Pan control                                  | 0 - 255   |

|       |                 |                             |           |
|-------|-----------------|-----------------------------|-----------|
| Ch 15 | Pan adjustment  | Pan adjustment control      | 0 - 255   |
| Ch 16 | Tilt            | Tilt control                | 0 - 255   |
| Ch 17 | Tilt adjustment | Tilt adjustment control     | 0 - 255   |
| Ch 18 | zoom            | zoom                        | 0 - 255   |
| Ch 19 | Lens rotation   | 0~60°                       | 0 – 155   |
|       |                 | Clockwise infinite rotation | 156 - 205 |
|       |                 | Counterclockwise rotation   | 206 - 255 |
| Ch 20 | Dimming Mode    | Mode -1                     | 0 - 49    |
|       |                 | Mode -2                     | 50 - 99   |
|       |                 | Mode -3                     | 100 - 149 |
|       |                 | Mode -4                     | 150 - 255 |
| Ch 21 | Reset           | NO                          | 0 - 250   |
|       |                 | Reset within 5s             | 251 - 255 |

## 24 Channel Mode

| Channel | Function             | Description         | Value   |
|---------|----------------------|---------------------|---------|
| Ch 1    | Pan adjustment       | Pan adjustment      | 0 - 255 |
| Ch 2    | Pan fine adjustment  | Pan fine adjustment | 0 - 255 |
| Ch 3    | Tilt adjustment      | Tilt adjustment     | 0 - 255 |
| Ch 4    | Tilt fine adjustment | Pan fine adjustment | 0 - 255 |
| Ch 5    | Speed of Pan/Tilt    | Fast to slow        | 0 - 255 |
| Ch 6    | Zoom                 | Near to far         | 0 - 255 |

|       |                          |                                               |           |
|-------|--------------------------|-----------------------------------------------|-----------|
| Ch 7  | Lens rotation            | 0 - 60°                                       | 0 - 255   |
|       |                          | Clockwise infinite rotation from fast to slow | 156 - 205 |
|       |                          | Counterclockwise rotation from slow to fast   | 206 - 255 |
| Ch 8  | Dimmer                   | Dark to bright                                | 0 - 255   |
| Ch 9  | Strobe                   | Turn on the light                             | 0 - 3     |
|       |                          | Synchro strobe speed slow to fast (1HZ-25HZ)  | 4 - 203   |
|       |                          | Random strobe                                 | 204 - 255 |
| Ch 10 | R                        | Dark to bright                                | 0 - 255   |
| Ch 11 | G                        | Dark to bright                                | 0 - 255   |
| Ch 12 | B                        | Dark to bright                                | 0 - 255   |
| Ch 13 | W                        | Dark to bright                                | 0 - 255   |
| Ch14  | Linear Color Temperature | No function                                   | 0 - 4     |
|       |                          | Color temperature from warm to cold           | 5 - 255   |
|       |                          | No function                                   | 0 - 9     |
|       |                          | Macro color 1                                 | 10 - 19   |
|       |                          | Macro color 2                                 | 20 - 29   |
|       |                          | (10 numbers 1 macro color)                    | ....      |
| Ch 15 |                          | Macro Color                                   |           |



|       |                  |                                   |           |
|-------|------------------|-----------------------------------|-----------|
|       |                  | Macro color 19                    | 190 - 199 |
|       |                  | Macro color 20                    | 200 - 255 |
| Ch 16 | Pattern rotation | No function                       | 0 - 9     |
|       |                  | Monochrome dynamic pattern<br>1   | 10 - 14   |
|       |                  | Monochrome dynamic pattern<br>2   | 15 - 19   |
|       |                  | (5numbers 1 pattern)              | .....     |
|       |                  | Monochrome dynamic pattern<br>20  | 105 - 109 |
|       |                  | Mixed color dynamic pattern 1     | 110 - 114 |
|       |                  | Mixed color dynamic pattern 2     | 115 - 119 |
|       |                  | (5 numbers 1 pattern)             | .....     |
|       |                  | Mixed color dynamic pattern<br>12 | 165 - 169 |
|       |                  | Mixed color dynamic pattern<br>13 | 170 - 255 |
| Ch 17 | Pattern movement | Pattern movement (with 16CH)      | 0 - 255   |
|       |                  | No function                       | 0 - 9     |

|       |                      |                            |            |
|-------|----------------------|----------------------------|------------|
| Ch 18 | Pattern Effect Speed |                            |            |
|       |                      | Forward, from fast to slow | 10----132  |
|       |                      | Reverse, from slow to fast | 133----255 |
| Ch 19 | Background R         | dark to bright             | 0----255   |

|       |              |                |            |
|-------|--------------|----------------|------------|
| Ch 20 | Background G | dark to bright | 0----255   |
| Ch 21 | Background B | dark to bright | 0----255   |
| Ch 22 | Background W | dark to bright | 0----255   |
| Ch 23 | Dimming Mode | Mode -1        | 0----49    |
|       |              | Mode -2        | 50----99   |
|       |              | Mode -3        | 100----149 |
|       |              | Mode -4        | 150----255 |
| Ch 24 | Reset        | no function    | 0----250   |
|       |              | Reset 5s       | 251----255 |

### 32 Channel Mode

| 32 channel mode : |                      |                                               |            |
|-------------------|----------------------|-----------------------------------------------|------------|
| Channel           | Function             | Description                                   | Value      |
| Ch 1              | Pan adjustment       | Pan adjustment                                | 0----255   |
| Ch 2              | Pan fine adjustment  | Pan fine adjustment                           | 0----255   |
| Ch 3              | Tilt adjustment      | Tilt adjustment                               | 0----255   |
| Ch 4              | Tilt fine adjustment | Pan fine adjustment                           | 0----255   |
| Ch 5              | Speed of Pan/Tilt    | Fast to slow                                  | 0----255   |
| Ch 6              | Zoom                 | Near to far                                   | 0----255   |
| Ch 7              | Lens rotation        | 0-60°                                         | 0----155   |
|                   |                      | Clockwise infinite rotation from fast to slow | 156----205 |

|       |                          |                                              |            |
|-------|--------------------------|----------------------------------------------|------------|
|       |                          | Counterclockwise rotation from slow to fast  | 206----255 |
| Ch 8  | Dimmer                   | Dark to bright                               | 0----255   |
| Ch 9  | Dimmer adjust            | Dimmer adjustment control                    | 0----255   |
| Ch 10 | Strobe                   | Turn on the light                            | 0----3     |
|       |                          | Synchro strobe speed slow to fast (1HZ-25HZ) | 4----203   |
|       |                          | Random strobe                                | 204----255 |
| Ch 11 | R                        | Red dimming                                  | 0----255   |
| Ch 12 | Red adjust               | Red adjust                                   | 0----255   |
| Ch 13 | G                        | Green dimming                                | 0----255   |
| Ch 14 | Green adjust             | Green adjust                                 | 0----255   |
| Ch 15 | B                        | Blue dimming                                 | 0----255   |
| Ch 16 | Blue adjust              | Blue adjust                                  | 0----255   |
| Ch 17 | W                        | White dimming                                | 0----255   |
| Ch 18 | White adjust             | White adjust                                 | 0----255   |
| Ch 19 | Dimming Mode             | Mode -1                                      | 0 --- 49   |
|       |                          | Mode -2                                      | 50 --- 99  |
|       |                          | Mode -3                                      | 100---149  |
|       |                          | Mode -4                                      | 150---255  |
| Ch 20 | Linear Color Temperature | No function                                  | 0---4      |
|       |                          | Color temperature from warm to cold          | 5---255    |
| Ch 21 | Macro color              | No function                                  | 0----9     |
|       |                          | Macro color 1                                | 10----19   |
|       |                          | Macro color 2                                | 20----29   |
|       |                          | ....(10 numbers 1 macro color)               | ....       |
|       |                          | Macro color 19                               | 190---199  |
|       |                          | Macro color 20                               | 200----255 |

|       |                                     |                                |            |
|-------|-------------------------------------|--------------------------------|------------|
| Ch 22 | Pattern rotation                    | No function                    | 0----9     |
|       |                                     | Monochrome dynamic pattern 1   | 10----14   |
|       |                                     | Monochrome dynamic pattern 2   | 15----19   |
|       |                                     | .....(5 numbers 1 pattern)     | .....      |
|       |                                     | Monochrome dynamic pattern 20  | 105----109 |
|       |                                     | Mixed color dynamic pattern 1  | 110----114 |
|       |                                     | Mixed color dynamic pattern 2  | 115----119 |
|       |                                     | (5 numbers 1 pattern)          | .....      |
|       |                                     | Mixed color dynamic pattern 12 | 165----169 |
|       |                                     | Mixed color dynamic pattern 13 | 170----255 |
| Ch 23 | Pattern movement                    | Pattern movement (with 22CH)   | 0----255   |
| Ch 24 | Pattern effect speed<br>(with 22CH) | No function                    | 0----9     |
|       |                                     | Forward, from fast to slow     | 10----132  |
|       |                                     | Reverse, from slow to fast     | 133----255 |
| Ch 25 | Pattern effect fade                 | Pattern effect fade            | 0----255   |
| Ch 26 | Background dimming                  | Background 0-100% dimming      | 0----255   |
| Ch 27 | Background strobe                   | Background strobe              | 0----255   |

|       |              |                |            |
|-------|--------------|----------------|------------|
| Ch 28 | Background R | Dark to bright | 0----255   |
| Ch 29 | Background G | Dark to bright | 0----255   |
| Ch 30 | Background B | Dark to bright | 0----255   |
| Ch 31 | Background W | Dark to bright | 0----255   |
| Ch 32 | Reset        | No function    | 0----250   |
|       |              | Reset 5s       | 251----255 |

**60 Channel Mode (60 DMX channels)**

| Channel | Function             | Description                                   | Value      |
|---------|----------------------|-----------------------------------------------|------------|
| Ch 1    | Pan adjustment       | Pan adjustment                                | 0----255   |
| Ch 2    | Pan fine adjustment  | Pan fine adjustment                           | 0----255   |
| Ch 3    | Tilt adjustment      | Tilt adjustment                               | 0----255   |
| Ch 4    | Tilt fine adjustment | Pan fine adjustment                           | 0----255   |
| Ch 5    | Speed of Pan/Tilt    | Fast to slow                                  | 0----255   |
| Ch 6    | zoom                 | Near to far                                   | 0----255   |
| Ch 7    | Lens rotation        | 0-60°                                         | 0----155   |
|         |                      | Clockwise infinite rotation from fast to slow | 156----205 |

|       |               |                                              |            |
|-------|---------------|----------------------------------------------|------------|
|       |               | Counterclockwise rotation from slow to fast  | 206----255 |
| Ch 8  | Dimmer        | Dark to bright                               | 0----255   |
| Ch 9  | Dimmer adjust | Dimmer adjustment control                    | 0----255   |
| Ch 10 | Strobe        | Turn on the light                            | 0----3     |
|       |               | Synchro strobe speed slow to fast (1HZ-25HZ) | 4----203   |
|       |               | Random strobe                                | 204----255 |
| Ch 11 | R             | Red dimming                                  | 0----255   |
| Ch 12 | Red adjust    | Red adjust                                   | 0----255   |
| Ch 13 | G             | Green dimming                                | 0----255   |
| Ch 14 | Green adjust  | Green adjust                                 | 0----255   |
| Ch 15 | B             | Blue dimming                                 | 0----255   |
| Ch 16 | Blue adjust   | Blue adjust                                  | 0----255   |
| Ch 17 | W             | White dimming                                | 0----255   |
| Ch 18 | White adjust  | White adjust                                 | 0----255   |

|       |              |         |           |
|-------|--------------|---------|-----------|
| Ch 19 | Dimming Mode | Mode -1 | 0 --- 49  |
|       |              | Mode -2 | 50 --- 99 |
|       |              | Mode -3 | 100---149 |
|       |              | Mode -4 | 150---255 |

|       |                          |                                     |            |
|-------|--------------------------|-------------------------------------|------------|
| CH20  | Linear color temperature | No function                         | 0----4     |
|       |                          | Color temperature from warm to cold | 5----255   |
| Ch 21 | Macro color              | No function                         | 0----9     |
|       |                          | Macro color 1                       | 10----19   |
|       |                          | Macro color 2                       | 20----29   |
|       |                          | ...(10 numbers 1 macro color)       | ....       |
|       |                          | Macro color 19                      | 190----199 |
|       |                          | Macro color 20                      | 200----255 |
| Ch 22 | Pattern rotation         | No function                         | 0----9     |
|       |                          | Monochrome dynamic pattern 1        | 10----14   |
|       |                          | Monochrome dynamic pattern 2        | 15----19   |
|       |                          | .....(5 numbers 1 pattern)          | .....      |
|       |                          | Monochrome dynamic pattern 20       | 105----109 |
|       |                          | Mixed color dynamic pattern 1       | 110----119 |
|       |                          | Mixed color dynamic pattern 2       | 150----159 |
|       |                          | .....(5 numbers 1 pattern)          | .....      |
|       |                          | Mixed color dynamic pattern 12      | 165----169 |
|       |                          | Mixed color dynamic pattern 13      | 170----255 |

|       |                                     |                              |            |
|-------|-------------------------------------|------------------------------|------------|
| Ch 23 | Pattern movement                    | Pattern movement (with 22CH) | 0----255   |
| Ch 24 | Pattern effect speed<br>(with 22CH) | No function                  | 0----9     |
|       |                                     | Forward, from fast to slow   | 10----132  |
|       |                                     | Reverse, from slow to fast   | 133----255 |
| Ch 25 | Pattern effect fade                 | Pattern effect fade          | 0----255   |
| Ch 26 | Background dimming                  | Background 0-100% dimming    | 0----255   |
| Ch 27 | Background strobe                   | Background strobe            | 0----255   |
| Ch 28 | Background R                        | dark to bright               | 0----255   |
| Ch 29 | Background G                        | dark to bright               | 0----255   |
| Ch 30 | Background B                        | dark to bright               | 0----255   |
| Ch 31 | Background W                        | dark to bright               | 0----255   |
| Ch 32 | Reset                               | no function                  | 0----250   |
|       |                                     | Reset 5s                     | 251----255 |
| Ch 33 | LED1 R                              | LED1 R dimming               | 0----255   |
| Ch 34 | LED1 G                              | LED1 G dimming               | 0----255   |
| Ch 35 | LED1 B                              | LED1 B dimming               | 0----255   |
| Ch 36 | LED1 W                              | LED1 W dimming               | 0----255   |
| ..... | .....                               | .....                        | .....      |



|       |        |                |          |
|-------|--------|----------------|----------|
| Ch 57 | LED7 R | LED7 R dimming | 0----255 |
| Ch 58 | LED7 G | LED7 G dimming | 0----255 |
| Ch 59 | LED7 B | LED7 B dimming | 0----255 |
| Ch 60 | LED7 W | LED7 W dimming | 0----255 |

#### Symbol Instruction on Fixture:



CE certificate



RoHS certificate