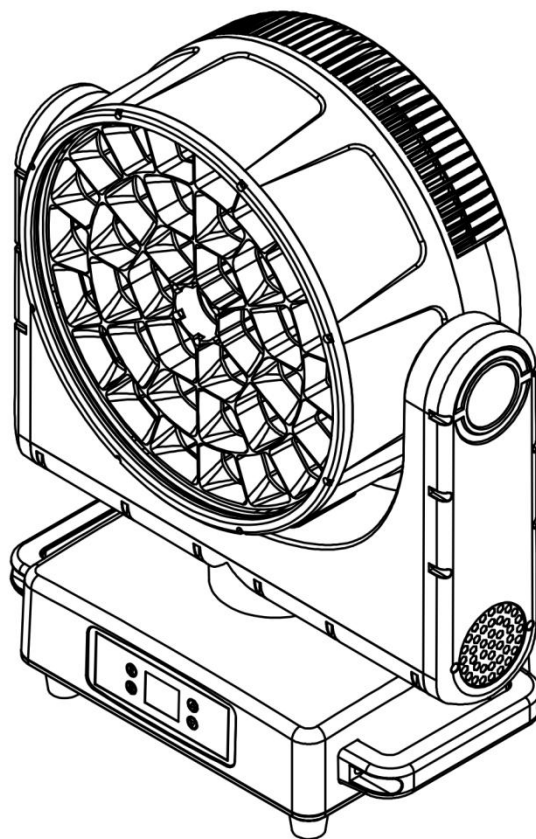


# B-EYE 3740 IP



## USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

Thank you for your patronage!

We are confident that our excellent products and service can satisfy you.

For your own safety, please read this user manual carefully before installing the device.

In order to install, operate, and maintain the lighting safety correctly.

We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



**CAUTION!**

Keep this device away from rain and moisture!



**CAUTION!**

Unplug mains lead before device's installation, cleaning and maintenance!

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow carefully the instructions of this manual

## **INTRODUCTION**

Thank you for having chosen this professional moving head.

You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the carton box you should find:

1. One power in cable
2. One 3 Pin DMX cable(5 Pin optional)
3. Two mounted brackets
4. One safety rope
5. One English user manual

( Flight case, Clamps/Folding clamp are optional, please contact your dealer )

Please check carefully that there is no damage caused by transportation. Should there be any questions, please consult your dealer and don't install this device.

## GENERAL GUIDELINES

This device is a lighting effect for a professional use on stages, TV, in discotheques, theaters, etc., The device was designed for indoor use only.

This fixture is only allowed to be operated with the max alternating current which stated in the technical specifications in 6<sup>th</sup> page of this manual.

Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.

While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances. The minimum distance between light-output from the projector and the illuminated surface must be more than 0,5 meter.

If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.

For safety reasons, please be aware that all modifications on the device are forbidden. If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, crash, etc.

## SAFETY INSTRUCTIONS

### CAUTION!



Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

1. In order to guarantee the product's life, please don't put it in the damp places or even the environment over 60degrees.
2. Always mount this unit in safe and stable matter.

The qualified professionals are allowed to carry out the lamp installation, operation and maintenance, but they must guarantee to operate in strict accordance with the instructions referred to.

▲ **Important:**

**Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.**

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperatures.

This device falls under protection-class I . Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.



**CAUTION!**

Never touch the device during operation!

The housing may heat up!



**CAUTION!**

Never look directly into the light source,

As sensitive persons may suffer an epileptic shock.

**Please be aware that damages caused by manual modifications to be the device are not subject to warranty. Keep away from children and non-professionals.**

## **CLEANING AND MAINTENANCE**

1. To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
2. Do not spill water or other liquids into or on to your unit.
3. During long periods of non-use, disconnect the unit's main power.
4. It should be installed in a well-ventilated place, at a distance of 50 centimeters or more with the walls. At the same time, please check if the fan and ventilation holes are unobstructed.

The following points have to be considered during the inspection

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing. Fixations and installations spots(ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



### **CAUTION!**

Disconnect from mains before starting maintenance operation!

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents !

## TECHINICAL PARAMETERS

Rated voltage: AC100V ~ 240V 50/60Hz

Input power: 1500W

Leds: 3740W 4-in-1 LED lights

Nominal use life: 30,000 hours

Focus: 2°-60°DMX linear with auto-focus function

Color temperature control: Built-in CTO DMX linear dimming

Dimming: 0% - 100%

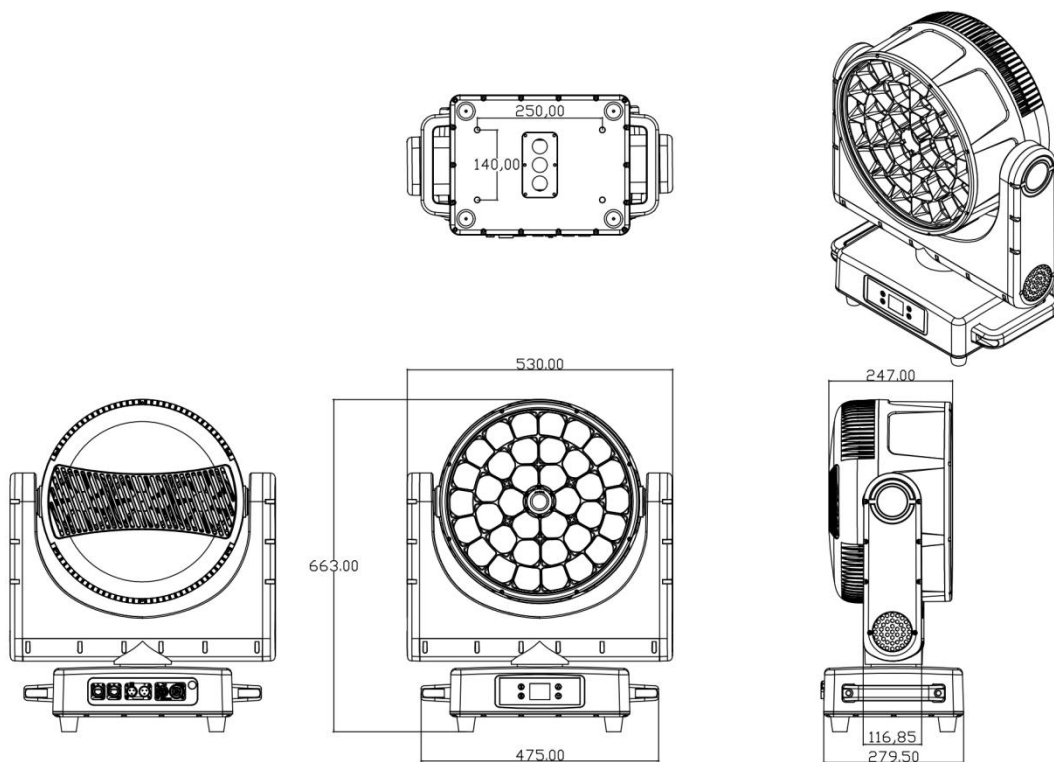
Rotation Angle: 540° horizontal (16-bit ) and 270° vertical (16-bit )

Control protocols: DMX512, RDM, Art-Net, SACN

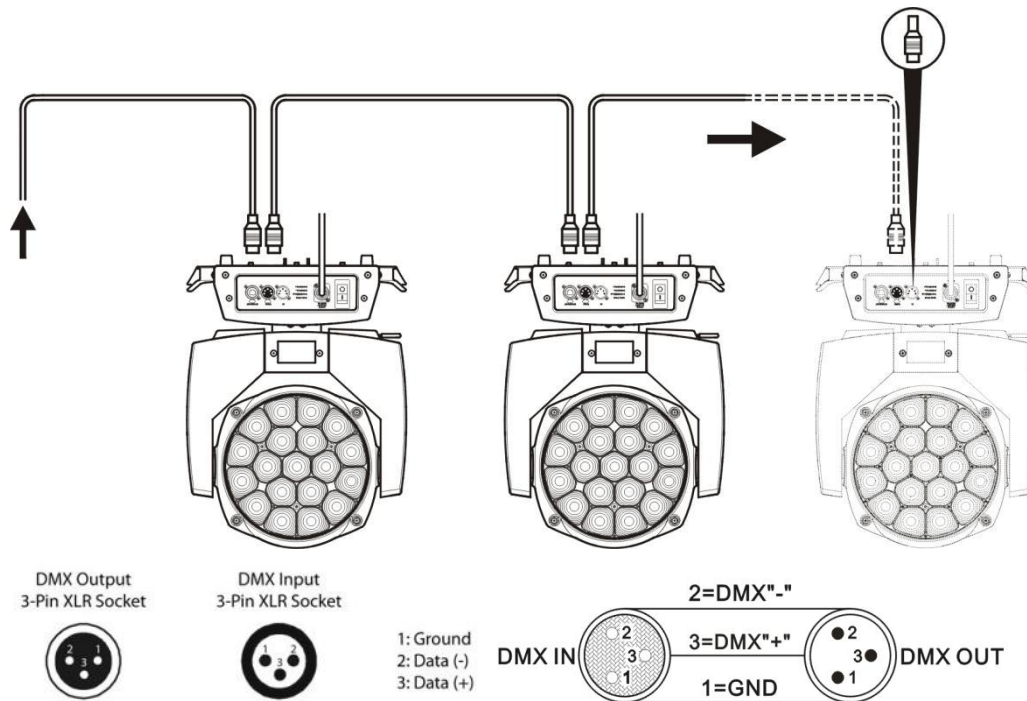
Protection rating: IP65

Effect Mode: Vortex, Kaleidoscope, Color, Beam

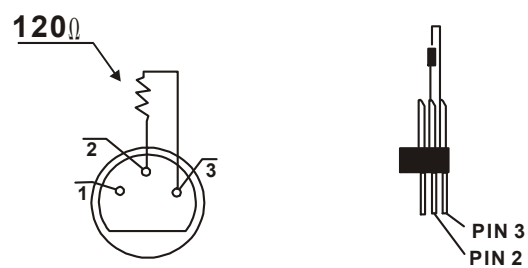
## SIZE DRAWING



## DMX-512



DMX-512 connection requires a terminator (loop connection)



## MENU FUNCTIONS

| MENU |                 | SUBMENU                  | DISCRIBTION                                                         |
|------|-----------------|--------------------------|---------------------------------------------------------------------|
| Menu |                 | Return                   | Return to the home screen                                           |
|      |                 | Centre /EN               | Chinese/English                                                     |
|      |                 | Proper                   | Display screen interface flipped                                    |
|      |                 | Set up                   | Settings                                                            |
| Set  | Address         | Address code             | 001-512                                                             |
|      | System Settings | Running mode             | DMX/voice control/autonomous 1/autonomous 2/                        |
|      |                 | Channel pattern          | 21CH/139CH/176CH/29CH/140CH/177CH/42CH/153CH/190CH/43CH/154CH/191CH |
|      |                 | Horizontal Flip          | Turn on/off                                                         |
|      |                 | Vertical Flip            | Turn on/off                                                         |
|      |                 | Hall error correction    | Turn on/off                                                         |
|      |                 | Coupler Error Correction | Turn on/off                                                         |
|      |                 | Signal on                | Turn on/off                                                         |
|      |                 | Screen protector         | Turn on/off                                                         |
|      |                 | Flip screen              | Auto/Off                                                            |
|      |                 | Sync updates             | Turn on/off                                                         |
|      |                 | language                 | Chinese/English                                                     |
|      |                 | Screen lock              | Turn on/off                                                         |
|      |                 | Dimming curve            | Curves 1-4                                                          |
|      |                 | Dimming speed            | Standard/Quick                                                      |
|      |                 | Mute Mode                | Turn on/off                                                         |
|      |                 | Factory data reset       | Confirm/Cancel                                                      |

|                    |                                 |                                                                     |
|--------------------|---------------------------------|---------------------------------------------------------------------|
| manual mode        | Manually control channel values | 000-255                                                             |
| system calibration | enter password                  | Light Calibration                                                   |
| reset              | Effect motor reset              |                                                                     |
|                    | Reset scanner                   |                                                                     |
|                    | Reset all motors                |                                                                     |
| system info        | Reset information               | Show details                                                        |
|                    | DMX data detection              | Display specific DMX detection content                              |
|                    | sensor information              | Display the specific information of the optocoupler and Hall sensor |
|                    | Hardware version                | Show hardware version number                                        |
|                    | software release                | Show software version                                               |

### ➤ Screen auto-rotate

The system automatically rotates the screen based on gravity, eliminating the need for manual adjustment. You can also disable this feature.

### ➤ manual control

This interface controls the current lighting. See the channel table for details.

Press OK to enter edit mode. Use the up and down keys to change the channel value. Press OK again to save the changes and exit edit mode. Press Exit to cancel the changes and exit edit mode.

### ➤ system calibration

Set a password here to prevent unauthorized access. Press OK to verify the password.

| Option                       | Info                                                                                                                                                                                                                                            |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Initial position calibration | After entering the sub-interface, you can adjust the reset positions of motors for the X-axis, Y-axis, focus, and rotation to compensate for hardware installation errors. The adjustment range is 0 to 255, with 127 indicating no adjustment. |

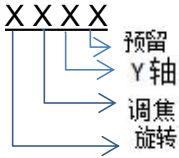
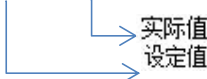
|                      |                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| white balance CAL    | Adjust the power of the lights and LEDs 1-37 (red, green, blue, and white) from 0 to 255. A value of 255 indicates no adjustment. |
| calibration of power | You can adjust the maximum power of the whole lamp. The adjustment range is 0 to 255. 255 means no adjustment.                    |
| Voice sensitivity    | Adjust voice sensitivity.                                                                                                         |
| change password      | Set the system calibration password.                                                                                              |

### ➤ senior

Press the up and down keys to switch between reset modes. Press OK to reset immediately.

| Option     | Info                         |
|------------|------------------------------|
| Head reset | Reset focus and rotate motor |
| XY reset   | Reset X/Y Axis               |
| Reset All  | Lamp Reset                   |

### ◆ system info

| Option              | Info                                                                                                                                                                                                                                                     |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reset error message | <p>If the red ERR indicator light is on, the lamp is operating with an error.</p> <p>1) IC1 Communication Failure (Motor-Display Board Communication Failure)</p> <p>2) X/Y coupler error</p> <p>3) Failed to adjust focus or rotate to reset</p>        |
| DMX Data Monitoring | Enter the sub-interface to view channel values numerically. You can flip pages.                                                                                                                                                                          |
| sensor information  | <p>1) Hall:</p>  <p>2) sensor :</p> <p><u>X/Y optical coupler: XXXX--XXXX</u></p>  |

|                         |                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hardware version number | <p>Hardware information of the device</p> <p>XX . XX . XX .XX XX .<br/> XX↓ . XX ↓ .XX ↓XX . XX .<br/> XX .XX XX . XX . XX .XX</p> <p>Display board version. Motor version. Light board version.</p> |
| Software version        | <p>Lamp software version</p> <p>XX . XX . XX .XX XX .<br/> XX↓ . XX ↓ .XX ↓ XX . XX .<br/> XX .XX XX . XX . XX .XX</p> <p>Display board version. Motor version. Light board version.</p>             |

## CHANNEL

| 28 channel (28CH) | 28+RGB channel (139CH) | 28+RGBW channel (176CH) | Function           | DMX   | Description                                  |
|-------------------|------------------------|-------------------------|--------------------|-------|----------------------------------------------|
| 1                 | 1                      | 1                       | red                | 0-255 | Red from dark to light linear dim            |
| 2                 | 2                      | 2                       | Red fine-tuning    | 0-255 | Red from dark to light linearly adjusted     |
| 3                 | 3                      | 3                       | green              | 0-255 | Linear dimming from dark to light            |
| 4                 | 4                      | 4                       | Green fine-tuning  | 0-255 | Adjust the green color from dark to light    |
| 5                 | 5                      | 5                       | blue               | 0-255 | Blue is linearly dimmed from dark to light   |
| 6                 | 6                      | 6                       | Blue fine-tuning   | 0-255 | Adjust the blue from dark to light           |
| 7                 | 7                      | 7                       | white              | 0-255 | Linear dimming from dark to light            |
| 8                 | 8                      | 8                       | White fine-tuning  | 0-255 | Adjust the white from dark to light linearly |
| 9                 | 9                      | 9                       | colour temperature | 0-255 | Linear Color Temperature Adjustment          |
| 10                | 10                     | 10                      | dye                | 0-255 | Built-in color gradient                      |
| 11                | 11                     | 11                      | strobe/flash       | 0-3   | lighting-off                                 |
|                   |                        |                         |                    | 4-103 | Sync the strobe speed from                   |

|    |    |    |                    |         |                                                |
|----|----|----|--------------------|---------|------------------------------------------------|
|    |    |    |                    |         | slow to fast (1HZ-25HZ)                        |
|    |    |    |                    | 104-107 | light up                                       |
|    |    |    |                    | 108-207 | Split flash speed from slow to fast (1HZ-25HZ) |
|    |    |    |                    | 208-212 | light up                                       |
|    |    |    |                    | 213-225 | Low-speed random strobe                        |
|    |    |    |                    | 226-238 | Medium Random Flash                            |
|    |    |    |                    | 239-251 | High-speed random flash                        |
|    |    |    |                    | 252-255 | light up                                       |
| 12 | 12 | 12 | Total dimming      | 0-255   | Linear dim from dark to light                  |
| 13 | 13 | 13 | Dimmer Fine Tune   | 0-255   | Dimmer fine-tuning control                     |
| 14 | 14 | 14 | X axle             | 0-255   | 0-540 degrees                                  |
| 15 | 15 | 15 | X-axis fine-tune   | 0-255   | 16-bit adjustable                              |
| 16 | 16 | 16 | Y axle             | 0-255   | 0-205 degrees                                  |
| 17 | 17 | 17 | Y-axis fine-tuning | 0-255   | 16-bit adjustable                              |
| 18 | 18 | 18 | function           | 0-255   | obligate                                       |
| 19 | 19 | 19 | reset              | 0-25    | NF                                             |
|    |    |    |                    | 26-76   | Head reset in 5s                               |
|    |    |    |                    | 77-127  | XY reset is valid for 5s                       |
|    |    |    |                    | 128-255 | All reset is valid for 5s                      |
| 20 | 20 | 20 | focus              | 0-255   | Linear adjustment from small to large angle    |
| 21 | 21 | 21 | revolve            | 0-127   | 0–60 degrees                                   |
|    |    |    |                    | 128-188 | Rotate counterclockwise from fast to slow      |
|    |    |    |                    | 189-193 | Stop rotation                                  |
|    |    |    |                    | 194-255 | Rotate clockwise from slow to                  |

|    |     |     |                 |         |                                                       |
|----|-----|-----|-----------------|---------|-------------------------------------------------------|
|    |     |     |                 |         | fast                                                  |
| 22 | 22  | 22  | Halo dimming    | 0-255   | 0-100% Halo Dim                                       |
| 23 | 23  | 23  | Halo Flash      | 0-4     | opening the light                                     |
|    |     |     |                 | 5-255   | Sync flash (slow to fast)                             |
| 24 | 24  | 24  | Aurora Red      | 0-255   | Highlight Red (from dark to light)                    |
| 25 | 25  | 25  | Glow Green      | 0-255   | Highlight Green (from dark to light)                  |
| 26 | 26  | 26  | Glory Blue      | 0-255   | Highlight Blue (from dark to light)                   |
| 27 | 27  | 27  | Aura effect     | 0-7     | NF                                                    |
|    |     |     |                 | 8-135   | Color-changing halo effect (4 numbers per effect)     |
|    |     |     |                 | 136-255 | Uncontrolled halo color effect (4 numbers per effect) |
| 28 | 28  | 28  | Aura Effect     | 0-266   | Fade effect speed from fast to slow                   |
|    | 29  | 29  | G1 LED dimming  | 0-255   | G1 LED dimming                                        |
|    | 30  | 30  | B1 LED dimming  | 0-255   | B1 LED dimming                                        |
|    |     | 31  | W1 LED dim      | 0-255   | W1 LED dimming                                        |
|    | ... | ... | ...             | ...     | .....                                                 |
|    | 137 | 173 | R37 LED dim     | 0-255   | R37 LED dim                                           |
|    | 138 | 174 | G37 LED dim     | 0-255   | G37 LED dim                                           |
|    | 139 | 175 | B37 LED dim     | 0-255   | B37 LED dim                                           |
|    |     | 176 | W37 LED dimming | 0-255   | W37 LED dim                                           |

| 29 channel (29CH) | 29+RGB channel (140CH) | 29+RGBW channel (177CH) | Function | DMX | Description |
|-------------------|------------------------|-------------------------|----------|-----|-------------|
|-------------------|------------------------|-------------------------|----------|-----|-------------|

|    |    |    |                    |         |                                                    |
|----|----|----|--------------------|---------|----------------------------------------------------|
| 1  | 1  | 1  | red                | 0-255   | Red from dark to light linear dim                  |
| 2  | 2  | 2  | Red fine-tuning    | 0-255   | Red from dark to light linearly adjusted           |
| 3  | 3  | 3  | green              | 0-255   | Linear dimming from dark to light                  |
| 4  | 4  | 4  | Green fine-tuning  | 0-255   | Adjust the green color from dark to light          |
| 5  | 5  | 5  | blue               | 0-255   | Blue is linearly dimmed from dark to light         |
| 6  | 6  | 6  | Blue fine-tuning   | 0-255   | Adjust the blue from dark to light                 |
| 7  | 7  | 7  | white              | 0-255   | Linear dimming from dark to light                  |
| 8  | 8  | 8  | White fine-tuning  | 0-255   | Adjust the white from dark to light linearly       |
| 9  | 9  | 9  | colour temperature | 0-255   | Linear Color Temperature Adjustment                |
| 10 | 10 | 10 | dye                | 0-255   | Built-in color gradient                            |
| 11 | 11 | 11 | stroboflash        | 0-3     | lighting-off                                       |
|    |    |    |                    | 4-103   | Sync the strobe speed from slow to fast (1HZ-25HZ) |
|    |    |    |                    | 104-107 | light up                                           |
|    |    |    |                    | 108-207 | Split flash speed from slow to fast (1HZ-25HZ)     |
|    |    |    |                    | 208-212 | light up                                           |
|    |    |    |                    | 213-225 | Low-speed random strobe                            |
|    |    |    |                    | 226-238 | Medium Random Flash                                |
|    |    |    |                    | 239-251 | High-speed random flash                            |
|    |    |    |                    | 252-255 | light up                                           |
| 12 | 12 | 12 | Total dimming      | 0-255   | Linear dim from dark to light                      |
| 13 | 13 | 13 | Dimmer Fine Tune   | 0-255   | Dimmer fine-tuning control                         |
| 14 | 14 | 14 | X axle             | 0-255   | 0-540 degrees                                      |

|    |    |    |                    |         |                                             |
|----|----|----|--------------------|---------|---------------------------------------------|
| 15 | 15 | 15 | X-axis fine-tune   | 0-255   | 16-bit adjustable                           |
| 16 | 16 | 16 | Y axle             | 0-255   | 0-205 degrees                               |
| 17 | 17 | 17 | Y-axis fine-tuning | 0-255   | 16-bit adjustable                           |
| 18 | 18 | 18 | function           | 0-255   | obligate                                    |
| 19 | 19 | 19 | reset              | 0-25    | NF                                          |
|    |    |    |                    | 26-76   | Head reset in 5s                            |
|    |    |    |                    | 77-127  | XY reset is valid for 5s                    |
|    |    |    |                    | 128-255 | All reset is valid for 5s                   |
| 20 | 20 | 20 | focus              | 0-255   | Linear adjustment from small to large angle |
| 21 | 21 | 21 | revolve            | 0-127   | 0–60 degrees                                |
|    |    |    |                    | 128-188 | Rotate counterclockwise from fast to slow   |
|    |    |    |                    | 189-193 | Stop rotation                               |
|    |    |    |                    | 194-255 | Rotate clockwise from slow to fast          |
| 22 | 22 | 22 | frequency          | 0-31    | 1K frequency                                |
|    |    |    |                    | 32-63   | 1.5K frequency                              |
|    |    |    |                    | 64-95   | 2K frequency                                |
|    |    |    |                    | 96-127  | 2.5K frequency                              |
|    |    |    |                    | 128-159 | 3K frequency                                |
|    |    |    |                    | 160-191 | 4K frequency                                |
|    |    |    |                    | 192-223 | 6K frequency                                |
|    |    |    |                    | 224-255 | 10K frequency                               |
| 23 | 23 | 23 | Halo dimming       | 0-255   | 0-100% Halo Dim                             |
| 24 | 24 | 24 | Halo Flash         | 0-4     | opening the light                           |
|    |    |    |                    | 5-255   | Sync flash (slow to fast)                   |

|                   |                               |                                |                   |            |                                                       |
|-------------------|-------------------------------|--------------------------------|-------------------|------------|-------------------------------------------------------|
| 25                | 25                            | 25                             | Aurora Red        | 0-255      | Highlight Red (from dark to light)                    |
| 26                | 26                            | 26                             | Glow Green        | 0-255      | Highlight Green (from dark to light)                  |
| 27                | 27                            | 27                             | Glory Blue        | 0-255      | Highlight Blue (from dark to light)                   |
| 28                | 28                            | 28                             | Aura effect       | 0-7        | NF                                                    |
|                   |                               |                                |                   | 8-135      | Color-changing halo effect (4 numbers per effect)     |
|                   |                               |                                |                   | 136-255    | Uncontrolled halo color effect (4 numbers per effect) |
| 29                | 29                            | 29                             | Aura effect       | 0-266      | Fade effect speed from fast to slow                   |
|                   | 30                            | 30                             | R1 LED dim        | 0-255      | R1 LED dim                                            |
|                   | 31                            | 31                             | G1 LED dimming    | 0-255      | G1 LED dimming                                        |
|                   | 32                            | 32                             | B1 LED dimming    | 0-255      | B1 LED dimming                                        |
|                   |                               | 33                             | W1 LED dim        | 0-255      | W1 LED dimming                                        |
|                   | ...                           | ...                            | ...               | ...        | .....                                                 |
|                   | 138                           | 174                            | R37 LED dim       | 0-255      | R37 LED dim                                           |
|                   | 139                           | 175                            | G37 LED dim       | 0-255      | G37 LED dim                                           |
|                   | 140                           | 176                            | B37 LED dim       | 0-255      | B37 LED dim                                           |
|                   |                               | 177                            | W37 LED dim       | 0-255      | W37 LED dim                                           |
| <b>42 channel</b> | <b>42+RGB channel (153CH)</b> | <b>42+RGBW channel (190CH)</b> | <b>Function</b>   | <b>DMX</b> | <b>Description</b>                                    |
| 1                 | 1                             | 1                              | red               | 0-255      | Red from dark to light linear dim                     |
| 2                 | 2                             | 2                              | Red fine-tuning   | 0-255      | Red from dark to light linearly adjusted              |
| 3                 | 3                             | 3                              | green             | 0-255      | Linear dimming from dark to light                     |
| 4                 | 4                             | 4                              | Green fine-tuning | 0-255      | Adjust the green color from dark to light             |
| 5                 | 5                             | 5                              | blue              | 0-255      | Blue is linearly dimmed from dark to light            |
| 6                 | 6                             | 6                              | Blue fine-tuning  | 0-255      | Adjust the blue from dark to light                    |
| 7                 | 7                             | 7                              | white             | 0-255      | Linear dimming from dark to light                     |

|    |    |    |                    |         |                                                    |
|----|----|----|--------------------|---------|----------------------------------------------------|
| 8  | 8  | 8  | White fine-tuning  | 0-255   | Adjust the white from dark to light linearly       |
| 9  | 9  | 9  | colour temperature | 0-255   | Linear Color Temperature Adjustment                |
| 10 | 10 | 10 | dye                | 0-255   | Built-in color gradient                            |
| 11 | 11 | 11 | strobe flash       | 0-3     | lighting-off                                       |
|    |    |    |                    | 4-103   | Sync the strobe speed from slow to fast (1HZ-25HZ) |
|    |    |    |                    | 104-107 | light up                                           |
|    |    |    |                    | 108-207 | Split flash speed from slow to fast (1HZ-25HZ)     |
|    |    |    |                    | 208-212 | light up                                           |
|    |    |    |                    | 213-225 | Low-speed random strobe                            |
|    |    |    |                    | 226-238 | Medium Random Flash                                |
|    |    |    |                    | 239-251 | High-speed random flash                            |
|    |    |    |                    | 252-255 | light up                                           |
| 12 | 12 | 12 | Total dimming      | 0-255   | Linear dim from dark to light                      |
| 13 | 13 | 13 | Dimmer Fine Tune   | 0-255   | Dimmer fine-tuning control                         |
| 14 | 14 | 14 | X axle             | 0-255   | 0-540 degrees                                      |
| 15 | 15 | 15 | X-axis fine-tune   | 0-255   | 16-bit adjustable                                  |
| 16 | 16 | 16 | Y axle             | 0-255   | 0-205 degrees                                      |
| 17 | 17 | 17 | Y-axis fine-tuning | 0-255   | 16-bit adjustable                                  |
| 18 | 18 | 18 | function           | 0-255   | obligate                                           |
| 19 | 19 | 19 | reset              | 0-25    | NF                                                 |
|    |    |    |                    | 26-76   | Head reset in 5s                                   |
|    |    |    |                    | 77-127  | XY reset is valid for 5s                           |
|    |    |    |                    | 128-255 | All reset is valid for 5s                          |
| 20 | 20 | 20 | focus              | 0-255   | Linear adjustment from small to large angle        |
| 21 | 21 | 21 | revolve            | 0-127   | 0-60 degrees                                       |
|    |    |    |                    | 128-188 | Rotate counterclockwise from fast to slow          |
|    |    |    |                    | 189-193 | Stop rotation                                      |

|    |    |    |                          |         |                                    |
|----|----|----|--------------------------|---------|------------------------------------|
|    |    |    |                          | 194-255 | Rotate clockwise from slow to fast |
| 22 | 22 | 22 | Motion<br>(Effect color) | 0-7     | /                                  |
|    |    |    |                          | 8       | Static effect 1                    |
|    |    |    |                          | 9       | Static effect 2                    |
|    |    |    |                          | 10      | Static effect 3                    |
|    |    |    |                          | 11      | /                                  |
|    |    |    |                          | 12      | Static effect 4                    |
|    |    |    |                          | 13      | Static effect 5                    |
|    |    |    |                          | 14      | /                                  |
|    |    |    |                          | 15      | Dynamic effect 1                   |
|    |    |    |                          | 16      | Dynamic effect 2                   |
|    |    |    |                          | 17      | Dynamic effect 3                   |
|    |    |    |                          | 18      | Dynamic Effect 4                   |
|    |    |    |                          | 19      | Random Monochrome                  |
|    |    |    |                          | 20      | Random Full Color                  |
|    |    |    |                          | 21      | Rainbow effect 1                   |
|    |    |    |                          | 22      | Rainbow effect 2                   |
|    |    |    |                          | 23      | Dynamic Effect 5                   |
|    |    |    |                          | 24      | Dynamic Effect 6                   |
|    |    |    |                          | 25      | Dynamic effect 7                   |
|    |    |    |                          | 26      | Dynamic Effect 8                   |
|    |    |    |                          | 27      | Dynamic Effect 9                   |
|    |    |    |                          | 28      | Dynamic Effect 10                  |
|    |    |    |                          | 29      | Dynamic Effect 11                  |
|    |    |    |                          | 30      | Dynamic Effect 12                  |
|    |    |    |                          | 31      | Dynamic Effect 13                  |
|    |    |    |                          | 32      | Dynamic Effect 14                  |
|    |    |    |                          | 33      | /                                  |
|    |    |    |                          | 34      | /                                  |
|    |    |    |                          | 35      | Dynamic Effect 15                  |

|  |  |  |  |    |                   |
|--|--|--|--|----|-------------------|
|  |  |  |  | 36 | Dynamic Effect 16 |
|  |  |  |  | 37 | Dynamic Effect 17 |
|  |  |  |  | 38 | Dynamic Effect 18 |
|  |  |  |  | 39 | Dynamic Effect 19 |
|  |  |  |  | 40 | Dynamic Effect 20 |
|  |  |  |  | 41 | /                 |
|  |  |  |  | 42 | Dynamic Effect 21 |
|  |  |  |  | 43 | /                 |
|  |  |  |  | 44 | Dynamic Effect 22 |
|  |  |  |  | 45 | Dynamic Effect 23 |
|  |  |  |  | 46 | Dynamic Effect 24 |
|  |  |  |  | 47 | Dynamic Effect 25 |
|  |  |  |  | 48 | Dynamic Effect 26 |
|  |  |  |  | 49 | Dynamic Effect 27 |
|  |  |  |  | 50 | Dynamic Effect 28 |
|  |  |  |  | 51 | Dynamic Effect 29 |
|  |  |  |  | 52 | Dynamic effect 30 |
|  |  |  |  | 53 | Dynamic Effect 31 |
|  |  |  |  | 54 | Dynamic effect 32 |
|  |  |  |  | 55 | Dynamic effect 33 |
|  |  |  |  | 56 | Dynamic effect 34 |
|  |  |  |  | 57 | Dynamic Effect 35 |
|  |  |  |  | 58 | Dynamic Effect 36 |
|  |  |  |  | 59 | Dynamic Effect 37 |
|  |  |  |  | 60 | Dynamic Effect 38 |
|  |  |  |  | 61 | Random location 1 |
|  |  |  |  | 62 | Random Location 2 |
|  |  |  |  | 63 | Random Location 3 |
|  |  |  |  | 64 | /                 |
|  |  |  |  | 65 | Random location 4 |

|    |    |    |                      |         |                                        |
|----|----|----|----------------------|---------|----------------------------------------|
|    |    |    |                      | 66      | Random Location 5                      |
|    |    |    |                      | 67      | Dynamic Effect 39                      |
|    |    |    |                      | 68      | Dynamic Effect 40                      |
|    |    |    |                      | 69      | /                                      |
|    |    |    |                      | 70      | Dynamic Effect 41                      |
|    |    |    |                      | 71-255  | /                                      |
| 23 | 23 | 23 | Motion speed         | 0-63    | Static effect                          |
|    |    |    |                      | 64-158  | Forward from fast to slow              |
|    |    |    |                      | 159-160 | static                                 |
|    |    |    |                      | 161-255 | Reverse from slow to fast              |
| 24 | 24 | 24 | Effect faded         | 0-255   | Fade effect                            |
| 25 | 25 | 25 | Red Effect           | 0-255   | Red dynamic effect                     |
| 26 | 26 | 26 | Green effect         | 0-255   | Dynamic effect green                   |
| 27 | 27 | 27 | Effect Blue          | 0-255   | Dynamic effect blue                    |
| 28 | 28 | 28 | Effect White         | 0-255   | Dynamic effect white                   |
| 29 | 29 | 29 | Effect dimming       | 0-255   | Pattern 0-100% dim                     |
| 30 | 30 | 30 | Background dimming   | 0-255   | Background dimming 0-100%              |
| 31 | 31 | 31 | Effect Transition    | 0-255   | Pattern Change Control                 |
| 32 | 32 | 32 | Effect Offset        | 0-255   | Dynamic effect: Translate              |
| 33 | 33 | 33 | Flash                | 0-255   | Flash (same as 11 channels)            |
| 34 | 34 | 34 | Background Blink     | 0-255   | Background Flash (Same as 11 channels) |
| 35 | 35 | 35 | background selection | 0-255   | background selection                   |
| 36 | 36 | 36 | Halo dimming         | 0-255   | 0-100% Halo Dim                        |
| 37 | 37 | 37 | Halo Flash           | 0-4     | opening the light                      |
|    |    |    |                      | 5-255   | Sync flash (slow to fast)              |
| 38 | 38 | 38 | Aurora Red           | 0-255   | Highlight Red (from dark to light)     |
| 39 | 39 | 39 | Glow Green           | 0-255   | Highlight Green (from dark to light)   |
| 40 | 40 | 40 | Glory Blue           | 0-255   | Highlight Blue (from dark to light)    |

|    |     |     |                |         |                                                         |
|----|-----|-----|----------------|---------|---------------------------------------------------------|
| 41 | 41  | 41  | Aura effect    | 0-7     | NF                                                      |
|    |     |     |                | 8-135   | Color-changing halo effect (4 numbers per effect)       |
|    |     |     |                | 136-255 | Uncontrollable halo color effect (4 numbers per effect) |
| 42 | 42  | 42  | Aura effect    | 0-266   | Fade effect speed from fast to slow                     |
|    | 43  | 43  | R1 LED dim     | 0-255   | R1 LED dim                                              |
|    | 44  | 44  | G1 LED dimming | 0-255   | G1 LED dimming                                          |
|    | 45  | 45  | B1 LED dimming | 0-255   | B1 LED dimming                                          |
|    |     | 46  | W1 LED dim     | 0-255   | W1 LED dim                                              |
|    | ... | ... | ...            | ...     | .....                                                   |
|    | 151 | 187 | R37 LED dim    | 0-255   | R37 LED dim                                             |
|    | 152 | 188 | G37 LED dim    | 0-255   | G37 LED dim                                             |
|    | 153 | 189 | B37 LED dim    | 0-255   | B37 LED dim                                             |
|    |     | 190 | W37 LED dim    | 0-255   | W37 LED dim                                             |

| 43 channel | 43+RGB channel (154CH) | 43+RGBW channel (191CH) | Function           | DMX   | Description                                  |
|------------|------------------------|-------------------------|--------------------|-------|----------------------------------------------|
| 1          | 1                      | 1                       | red                | 0-255 | Red from dark to light linear dim            |
| 2          | 2                      | 2                       | Red fine-tuning    | 0-255 | Red from dark to light linearly adjusted     |
| 3          | 3                      | 3                       | green              | 0-255 | Linear dimming from dark to light            |
| 4          | 4                      | 4                       | Green fine-tuning  | 0-255 | Adjust the green color from dark to light    |
| 5          | 5                      | 5                       | blue               | 0-255 | Blue is linearly dimmed from dark to light   |
| 6          | 6                      | 6                       | Blue fine-tuning   | 0-255 | Adjust the blue from dark to light           |
| 7          | 7                      | 7                       | white              | 0-255 | Linear dimming from dark to light            |
| 8          | 8                      | 8                       | White fine-tuning  | 0-255 | Adjust the white from dark to light linearly |
| 9          | 9                      | 9                       | colour temperature | 0-255 | Linear Color Temperature Adjustment          |

|    |    |    |                    |         |                                                    |
|----|----|----|--------------------|---------|----------------------------------------------------|
| 10 | 10 | 10 | dye                | 0-255   | Built-in color gradient                            |
| 11 | 11 | 11 | strobe/flash       | 0-3     | lighting-off                                       |
|    |    |    |                    | 4-103   | Sync the strobe speed from slow to fast (1HZ-25HZ) |
|    |    |    |                    | 104-107 | light up                                           |
|    |    |    |                    | 108-207 | Split flash speed from slow to fast (1HZ-25HZ)     |
|    |    |    |                    | 208-212 | light up                                           |
|    |    |    |                    | 213-225 | Low-speed random strobe                            |
|    |    |    |                    | 226-238 | Medium Random Flash                                |
|    |    |    |                    | 239-251 | High-speed random flash                            |
|    |    |    |                    | 252-255 | light up                                           |
| 12 | 12 | 12 | Total dimming      | 0-255   | Linear dim from dark to light                      |
| 13 | 13 | 13 | Dimmer Fine Tune   | 0-255   | Dimmer fine-tuning control                         |
| 14 | 14 | 14 | X axle             | 0-255   | 0-540 degrees                                      |
| 15 | 15 | 15 | X-axis fine-tune   | 0-255   | 16-bit adjustable                                  |
| 16 | 16 | 16 | Y axle             | 0-255   | 0-205 degrees                                      |
| 17 | 17 | 17 | Y-axis fine-tuning | 0-255   | 16-bit adjustable                                  |
| 18 | 18 | 18 | function           | 0-255   | obligate                                           |
| 19 | 19 | 19 | reset              | 0-25    | NF                                                 |
|    |    |    |                    | 26-76   | Head reset in 5s                                   |
|    |    |    |                    | 77-127  | XY reset is valid for 5s                           |
|    |    |    |                    | 128-255 | All reset is valid for 5s                          |
| 20 | 20 | 20 | focus              | 0-255   | Linear adjustment from small to large angle        |
| 21 | 21 | 21 | revolve            | 0-127   | 0-60 degrees                                       |
|    |    |    |                    | 128-188 | Rotate counterclockwise from fast to slow          |

|    |    |    |                          |         |                                    |
|----|----|----|--------------------------|---------|------------------------------------|
|    |    |    |                          | 189-193 | Stop rotation                      |
|    |    |    |                          | 194-255 | Rotate clockwise from slow to fast |
| 22 | 22 | 22 | Motion<br>(Effect color) | 0-7     | /                                  |
|    |    |    |                          | 8       | Static effect 1                    |
|    |    |    |                          | 9       | Static effect 2                    |
|    |    |    |                          | 10      | Static effect 3                    |
|    |    |    |                          | 11      | /                                  |
|    |    |    |                          | 12      | Static effect 4                    |
|    |    |    |                          | 13      | Static effect 5                    |
|    |    |    |                          | 14      | /                                  |
|    |    |    |                          | 15      | Dynamic effect 1                   |
|    |    |    |                          | 16      | Dynamic effect 2                   |
|    |    |    |                          | 17      | Dynamic effect 3                   |
|    |    |    |                          | 18      | Dynamic Effect 4                   |
|    |    |    |                          | 19      | Random Monochrome                  |
|    |    |    |                          | 20      | Random Full Color                  |
|    |    |    |                          | 21      | Rainbow effect 1                   |
|    |    |    |                          | 22      | Rainbow effect 2                   |
|    |    |    |                          | 23      | Dynamic Effect 5                   |
|    |    |    |                          | 24      | Dynamic Effect 6                   |
|    |    |    |                          | 25      | Dynamic effect 7                   |
|    |    |    |                          | 26      | Dynamic Effect 8                   |
|    |    |    |                          | 27      | Dynamic Effect 9                   |
|    |    |    |                          | 28      | Dynamic Effect 10                  |
|    |    |    |                          | 29      | Dynamic Effect 11                  |

|  |  |  |  |    |                   |
|--|--|--|--|----|-------------------|
|  |  |  |  | 30 | Dynamic Effect 12 |
|  |  |  |  | 31 | Dynamic Effect 13 |
|  |  |  |  | 32 | Dynamic Effect 14 |
|  |  |  |  | 33 | /                 |
|  |  |  |  | 34 | /                 |
|  |  |  |  | 35 | Dynamic Effect 15 |
|  |  |  |  | 36 | Dynamic Effect 16 |
|  |  |  |  | 37 | Dynamic Effect 17 |
|  |  |  |  | 38 | Dynamic Effect 18 |
|  |  |  |  | 39 | Dynamic Effect 19 |
|  |  |  |  | 40 | Dynamic Effect 20 |
|  |  |  |  | 41 | /                 |
|  |  |  |  | 42 | Dynamic Effect 21 |
|  |  |  |  | 43 | /                 |
|  |  |  |  | 44 | Dynamic Effect 22 |
|  |  |  |  | 45 | Dynamic Effect 23 |
|  |  |  |  | 46 | Dynamic Effect 24 |
|  |  |  |  | 47 | Dynamic Effect 25 |
|  |  |  |  | 48 | Dynamic Effect 26 |
|  |  |  |  | 49 | Dynamic Effect 27 |
|  |  |  |  | 50 | Dynamic Effect 28 |
|  |  |  |  | 51 | Dynamic Effect 29 |
|  |  |  |  | 52 | Dynamic effect 30 |
|  |  |  |  | 53 | Dynamic Effect 31 |
|  |  |  |  | 54 | Dynamic Effect 32 |

|    |    |    |              |         |                           |
|----|----|----|--------------|---------|---------------------------|
|    |    |    |              | 55      | Dynamic Effect 33         |
|    |    |    |              | 56      | Dynamic effect 34         |
|    |    |    |              | 57      | Dynamic effect 35         |
|    |    |    |              | 58      | Dynamic Effect 36         |
|    |    |    |              | 59      | Dynamic Effect 37         |
|    |    |    |              | 60      | Dynamic Effect 38         |
|    |    |    |              | 61      | Random location 1         |
|    |    |    |              | 62      | Random Location 2         |
|    |    |    |              | 63      | Random Location 3         |
|    |    |    |              | 64      | /                         |
|    |    |    |              | 65      | Random location 4         |
|    |    |    |              | 66      | Random Location 5         |
|    |    |    |              | 67      | Dynamic Effect 39         |
|    |    |    |              | 68      | Dynamic Effect 40         |
|    |    |    |              | 69      | /                         |
|    |    |    |              | 70      | Dynamic Effect 41         |
|    |    |    |              | 71-255  | /                         |
| 23 | 23 | 23 | Motion speed | 0-63    | Static effect             |
|    |    |    |              | 64-158  | Forward from fast to slow |
|    |    |    |              | 159-160 | static                    |
|    |    |    |              | 161-255 | Reverse from slow to fast |
| 24 | 24 | 24 | Effect faded | 0-255   | Fade effect               |
| 25 | 25 | 25 | Red Effect   | 0-255   | Red dynamic effect        |
| 26 | 26 | 26 | Green effect | 0-255   | Dynamic effect green      |
| 27 | 27 | 27 | Effect Blue  | 0-255   | Dynamic effect blue       |

|    |    |    |                      |         |                                                   |
|----|----|----|----------------------|---------|---------------------------------------------------|
| 28 | 28 | 28 | Effect White         | 0-255   | Dynamic effect white                              |
| 29 | 29 | 29 | Effect dimming       | 0-255   | Pattern 0-100% dim                                |
| 30 | 30 | 30 | Background dimming   | 0-255   | Background dimming 0-100%                         |
| 31 | 31 | 31 | Effect Transition    | 0-255   | Pattern Change Control                            |
| 32 | 32 | 32 | Effect Offset        | 0-255   | Dynamic effect: Translate                         |
| 33 | 33 | 33 | Flash                | 0-255   | Flash (same as 11 channels)                       |
| 34 | 34 | 34 | Background Blink     | 0-255   | Background Flash (Same as 11 channels)            |
| 35 | 35 | 35 | background selection | 0-255   | background selection                              |
| 36 | 36 | 36 | frequency            | 0-31    | 1K frequency                                      |
|    |    |    |                      | 32-63   | 1.5K frequency                                    |
|    |    |    |                      | 64-95   | 2K frequency                                      |
|    |    |    |                      | 96-127  | 2.5K frequency                                    |
|    |    |    |                      | 128-159 | 3K frequency                                      |
|    |    |    |                      | 160-191 | 4K frequency                                      |
|    |    |    |                      | 192-223 | 6K frequency                                      |
|    |    |    |                      | 224-255 | 10K frequency                                     |
| 37 | 37 | 37 | Halo dimming         | 0-255   | 0-100% Halo Dim                                   |
| 38 | 38 | 38 | Halo Flash           | 0-4     | opening the light                                 |
|    |    |    |                      | 5-255   | Sync flash (slow to fast)                         |
| 39 | 39 | 39 | Aurora Red           | 0-255   | Highlight Red (from dark to light)                |
| 40 | 40 | 40 | Glow Green           | 0-255   | Highlight Green (from dark to light)              |
| 41 | 41 | 41 | Glory Blue           | 0-255   | Highlight Blue (from dark to light)               |
| 42 | 42 | 42 | Aura effect          | 0-7     | NF                                                |
|    |    |    |                      | 8-135   | Color-changing halo effect (4 numbers per effect) |

|    |     |     |                 |         |                                                       |
|----|-----|-----|-----------------|---------|-------------------------------------------------------|
|    |     |     |                 | 136-255 | Uncontrolled halo color effect (4 numbers per effect) |
| 43 | 43  | 43  | Aura Effect     | 0-266   | Fade effect speed from fast to slow                   |
|    | 44  | 37  | R1 LED dim      | 0-255   | R1 LED dim                                            |
|    | 45  | 38  | G1 LED dimming  | 0-255   | G1 LED dimming                                        |
|    | 46  | 39  | B1 LED dimming  | 0-255   | B1 LED dimming                                        |
|    |     | 40  | W1 LED dim      | 0-255   | W1 LED dim                                            |
|    | ... | ... | ...             | ...     | .....                                                 |
|    | 152 | 188 | R37 LED dimming | 0-255   | R37 LED dim                                           |
|    | 153 | 189 | G37 LED dim     | 0-255   | G37 LED dim                                           |
|    | 154 | 190 | B37 LED dim     | 0-255   | B37 LED dim                                           |
|    |     | 191 | W37 LED dim     | 0-255   | W37 LED dim                                           |

## REMARK

The product has perfect performance and integrity packing. All users should be strictly comply with the warning.

and operating instructions as stated. Or we aren't in charge of any result by misusing.

Any damage resulting by misuse is not within the Company's warranty.

Any fault or problem caused by neglecting the manual is also not in the charge of dealers.

Errors and omissions for every information given in this manual excepted.

All information is subject to change without prior notice.

**Thank you again for your patronage!**

**We will be offering sincere service as always, wish you have a good lighting journey!**

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