## Moving Head 15R



User Manual

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## 1:SAFETY INSTRUCTIONS

Please carefully read the instructions, this guide consists of important information about installation, using and maintenance.
$\diamond$ Before using this product, please carefully observe the product is not unwrapped or damage during transport. In case of damage caused by transportation, please do not use this product and as soon as possible contact your dealer.
$\diamond$ It is very important that connecting the ground wire to avoid electric shock.
$\diamond$ This product is for dry indoor environments.
$\diamond$ This product must be installed on the sufficient space, adjacent to interface the shortest distance of 50 cm , to ensure that the lights will not crash each other.

Before moving or repairing the product, please keep the power off.
When it working, ensure that no inflammable and explosive near the product.

When installing this product, please use the safety rope. When handling this product, lift the armrest base, rather than the lamp body.
$\diamond$ The product is suitable for a maximum temperature of 40 degrees Celsius. When the surrounding environment is higher than 40 degrees Celsius, please do not use this product.
$\diamond$ Do not touch. In operation, the product running very fast, to prevent bumps hands.
$\diamond$ If there is a problem with the operation during the show, the lighting should be stopped immediately. Do not perform repairs, damage or repairs that may occur during maintenance. Please contact the company's after sale for repair. Use the same model of accessories during the repair process.

Please carefully read the instructions, this guide consists of important information about installation, using and maintenance. It is important that the product must have anti-vibration protection carton or flight case during transportation.

## 2.TECHNICAL PARAMETERS

$\diamond$ DMX Channel: 16 Channels
$\diamond$ Control Mode: DMX512 Mode, Auto Mode
$\diamond$ LED LCD Display + Press button
$\diamond$ Original Osram 310W bulb + Electronic Ballast
$\diamond$ Pan \& Tilt Motor: Ultra mute and high speed 3-Phase step motors
$\diamond$ Color temperature: 8000 K , life span is 4000 hours
$\diamond 13$ Colors + Open, Semi Color Effect
$\diamond 9$ Fixed Gobo + 5 Open
$\diamond$ Prism: 8-Facet Prism and honeycomb prism could rotate reve rsible, prisms can combine multilayer beam effect.
$\diamond$ Optical lens: High precision glued optical lens
$\diamond$ Frost Angle: $8^{\circ}$
$\diamond$ Focus: Linear Focus
$\diamond$ Dimmer: 0-100\% linear dimmer
$\diamond$ Beam angle: 0-2.3 degree
$\diamond$ Strobe: Electronic Strobe (0.5-9FPS)
$\diamond$ Housing:High temperature resistant alloy plastic+plastic handle
$\diamond$ Rated Power: 400W
$\diamond$ IP Rate: IP20
$\diamond$ Weight: 15.6KG
$\diamond$ Size: 361*261*527mm

## 3:Schematic Lighting Components



## 4:Packing And Shipping

### 4.1 Packing

310 Beam light is packaged by carton or standard 2 in1 flight case(selectable 1 in 1 or 4in1), accessories items are as below

| Name | Quantity | unit |
| :--- | :--- | :--- |
| User manual | 1 | piece |
| Signal line | 1 | piece |
| safe rope | 1 | piece |
| Hanging lamp |  |  |
| hook and fastener | 2 | piece |
| Power line | 1 | piece |

### 4.2 Transport protection locks

In order to transport it easy to protect the lamp body has two locks(XY axes each a lock), X-axis has four lock position, Y-axis triple lock, lock locked in the center position in the transport and light a vertical position with the arm member.

### 4.3 Packing

1.Disconnect the power supply so that the lamp to cool completely before packaging equipment, at least 15 minutes or more.
2.Closing the light protect lock, when clean the surface of the light dust
3.Cover the light, seize the equipment both sides aluminum handles on to make it upside down and gently placed in the box.
4.Add lighting accessories after placing the light in box.
5.Up to two crates stacked prohibited upside down.

### 4.4 Unpacking

2.Seizing the equipment handles, lifting and carrying away the light from the box .Or opening the flight case cover, placing lift boom close to the light base, then equipping light hook on light base bottom.

Tightening Quick Install locks. At last rising away boom to the top of the lamp from flight case, put the flight case away.
3.Before turning on the light,should open the light protecting lock

Note: Upon receipt of lamps, please check if there is damage to the fold closure caused
by transport,where there is transportation damage, please do not use this fixture, and as
soon as possible contact.

## 5:Safety Standard Installation

Users should ensure that light and installation materials are checked for regular safety checks, unprofessional incorrect installation can lead to dangerous, if the lack of working conditions and professional standards, please operate the light by professionals. Do not use the light if the working temperature isn't $15^{\circ}-40^{\circ}$.When the lighting installation, dismantling,moving, or servicing, do not stand directly beneath the lamp. The operator must ensure that the fixtures are secure connection, installing the light after professionals approving electrical parameters, make sure that these installation must be checked at least once per year by experts.

### 5.1 Installing rigging

Beam moving head lights can be placed on the stage or on a stand in any direction, Quick lock system can quickly and easily remove or install a light hook.

Note: must use two clamps fixed equipment, and are $1 / 4$ buckle fastening jig, only fully
rotated 90 degrees clockwise to lock fastener.

### 5.2 Fixed equipment

1. Before installing fixtures,must verified rigging equipments are not damaged, and can bear at least 10 times of light's weight. Check the building can be beared at least 10 times of total weights of light, fixture, and cable accessories.
2.Insert the locked hook fastener into base mounting holes horizontally, grab the handle clockwise 90 degrees fasteners, in the same way to install a second fastener,make sure the fastener is fastened under the light base.
3.If truss can be lifted,the equipment can be directly clamped from flight case and locked fixture base. Then hung on the light and using safety rope fixed it.

Before rising the light to right height, connect the power cord and signal cable.
Note: add a safety rope attached the light's base insurance shelf, do not connect the

## device handle.

Lights be placed vertically upward,the shortest distance between working lights must be
more than or equal 1000 mm , lighting installation layout as following.


### 5.3 Data cable

Data cable is DMX512 signal

Note: Signal line connections is X-type connector。
X-type connector-----If the external flexible cable or cord of this light is damaged
and output connects to a three-pin XLR and five-pin XLR insert, first pin is grounded, then negative signal is second pin, third pin connects to the positive polarity signal, fourth and fifth are empty.In order to prevent reception reflection and interference control signal,a terminal plug must be installed on the first branch of the connected device last 3-pin output jack.


Connect the controller to the nearest input XLR 3-pin, then from the output of the device connects to the input of the next device, continuous connection one by one, the final output data cable terminal equipment plug one end into the terminal.


If the signal transmission is long-distance, 512 signal amplifier must be added. DMX512 signal controller connect to the input of the amplifier first, then connect to the fixture from its output,couple with the terminal plug last.
2. Please use the shielded twisted-pair cable,standard microphone cable can not be reliably controlled long-distance data.

## 6:AC POWER

### 6.1Fuse

| Power | Fuse |
| :--- | :--- |
| $100-240 v^{\sim}$ | $8 \mathrm{~A} \quad 5^{*} 20 \mathrm{main}$ fuse |

### 6.2 Power Connection

If the external flexible cable or cord of this light is damaged, the line is up to the manufacturer or its service agent or a similar qualified person to replace, in order to avoid danger. Connect the power supply personnel must have the appropriate qualifications before proceeding, you must make sure you are using the power supply voltage matches the voltage identified and have overload or leakage protection.

Directly connect the device to the power supply, do not connect to the silicon box dimming system, otherwise damage to the equipment.

## 7:LAMP

### 7.1 Lamp Description

Beam Moving Head Beam light is fitted with Osram Single-ended lamp is short arc point light source, and its color temperature is 9000 K and very stable, CRI $>90$. Life span is over 4000 hours(according the using situation)

NOTE: Do not install other similar lamps, and will cause safety hazards or equipment
damage. To reduce the risk of damage to the lamp, replacing the lamp before the lamp
life over. Do not use scratches and has damaged bulb.

### 7.2 Lamp Replacement

in a horizontal position.
2 Split bulbs:Remove the cover which is written "split this cover to replace the lamp head cover"

3 Use a Phillips screwdriver to remove the fan two thumbscrews fixed side.
4 With the appropriate force to push down the bulb when the lamp cup beyond the edge of the stainless steel shrapnel, taking up the lamp.

5 Install the bulb is the opposite of the operation.
NOTE: Install other similar lamps, and will cause safety hazards or equipment damaged.
Install and remove the bulb gently into the bulb, do not let the bulb touch its
surrounding hard objects, to prevent damage to the bulb. Note that the light bulb is
notched in the direction of the blower's blow outlet.

### 7.3 Correcting the bulb

(when leaving the factory, the bulb has been corrected., If individual cases happened after the replacement of the bulb, you can follow this method)

1. Turn on the power to reset, use the menu or controller, light the bulb, and play a white light.
2. Use a screwdriver to open one side of the cover housing of the lamp body
3. Use a flat-head screwdriver to adjust the screws on the light bulb fixing bracket. Turn the screws clockwise or counterclockwise, and adjust the light bulb to the right or left.

## 8:FUNCTION

### 8.1 Gobo wheel

A metal gobo wheel is composed by 9 aluminum gobos +5 white, which could also be custom made.


### 8.2 Color wheel

Color wheel is made by 13 high standard fixed color, the user can easily select their own favorite color, to create a perfect lighting effect. Use the gobo wheel at same time is better.It can be easily transformed a colorful gobo effect. (According to customer needs may change at any time own custom various color wheel).

### 8.3 Optical lens focusing

The two high precision screw motors are used to work together to adjust optical lens to complete the pattern definition.

## 8.4 prism wheel and the prism overlay

The prism wheel is equipped with a 8-facet prism and a honeycomb prism can clockwise and counterclockwise rotation, speed adjustable, with colors and patterns, it can create a variety of colorful lighting effects. The prism plate through two high precision super eight head screw motors to adjust cutting prism spot size and then react the dynamic effect of prism .

### 8.5 Dimming and strobe

0-100\% mechanical dimmer, you can instantly switch freely adjustable strobe speed up to 12 times / sec, along with random strobe special features.

### 8.6 Frost

Frost is a piece of atomizing lens, according to the actual control to complete the frost

## 8.7 horizontal and vertical scanning

Pan: $540^{\circ}$, Tilt $270^{\circ}$, With 16 BIT precise positioning capabilities.
Horizontal and vertical speed is adjustable.

## 9:Display setting

9.1 Display panel


BEAM MENU

| 1, DMX Address: 1-512 |  |  |
| :---: | :---: | :---: |
| 2, Channel: 16Channels |  |  |
| 3, Reset | Motor | ON/OFF |
|  | XY |  |
|  | Shutter |  |
|  | Color |  |
|  | Gobo |  |
|  | Light Road |  |
| 4, Operation | DMX / AUTO / USER |  |
| 5, Lamp | ON/OFF |  |
| 6, Manual Control | X | 0-255 |
|  | Y | 0-255 |
|  | XY Speed | 0-255 |
|  | Color | 0-255 |
|  | Shutter | 0-255 |
|  | Dimmer | 0-255 |
|  | Gobo | 0-255 |
|  | Prism 1 | 0-255 |
|  | Prism 2 | 0-255 |
|  | Prism Auto.lugasatt.gr | 0-255 |
|  | Frost | 0-255 |



|  |  |  | Channel 6 | 0-255 |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Channel 7 | 0-255 |
|  |  |  | Channel 8 | 0-255 |
|  |  |  | Channel 9 | 0-255 |
|  |  |  | Channel 10 | 0-255 |
|  |  |  | Channel 11 | 0-255 |
|  |  |  | Channel 12 | 0-255 |
|  |  |  | Channel 13 | 0-255 |
|  |  |  | Channel 14 | 0-255 |
|  |  |  | Channel 15 | 0-255 |
|  |  |  | Channel 16 | 0-255 |
|  |  |  | Time | 0-255 |
|  |  |  | Channel 1 | 0-255 |
|  |  |  | Channel 2 | 0-255 |
|  |  |  | Channel 3 | 0-255 |
|  |  |  | Channel 4 | 0-255 |
|  |  |  | Channel 5 | 0-255 |
|  |  |  | Channel 6 | 0-255 |
|  |  |  | Channel 7 | 0-255 |
|  |  | Step 04 | Channel 8 | 0-255 |
|  |  |  | Channel 9 | 0-255 |
|  |  |  | Channel 10 | 0-255 |
|  |  |  | Channel 11 | 0-255 |
|  |  |  | Channel 12 | 0-255 |
|  |  |  | Channel 13 | 0-255 |
|  |  |  | Channel 14 | 0-255 |
|  |  |  | Channel 15 | 0-255 |
|  |  |  | Channel 16 | 0-255 |
|  |  |  | Time | 0-255 |
|  |  |  | Channel 1 | 0-255 |
|  |  |  | Channel 2 | 0-255 |
|  |  |  | Channel 3 | 0-255 |
|  |  |  | Channel 4 | 0-255 |
|  |  |  | Channel 5 | 0-255 |
|  |  |  | Channel 6 | 0-255 |
|  |  |  | Channel 7 | 0-255 |
|  |  | Step 05 | Channel 8 | 0-255 |
|  |  |  | Channel 9 | 0-255 |
|  |  |  | Channel 10 | 0-255 |
|  |  |  | Channel 11 | 0-255 |
|  |  |  | Channel 12 | 0-255 |
|  |  |  | Channel 13 | 0-255 |
|  |  |  | Channel 14 | 0-255 |
|  |  |  | Channel 15 | 0-255 |
|  |  |  | Channel 16 | 0-255 |
|  |  |  | Time | 0-255 |
|  |  |  | Channel 1 | 0-255 |
|  |  | Step 06 | Channel 2 | 0-255 |
|  |  | Step 06 | Channel 3 | 0-255 |
|  | www.lucasled.gr |  | Channel 4 | 0-255 |
|  |  |  | Channel 5 | 0-255 |


|  |  |  | Channel 6 | 0-255 |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Channel 7 | 0-255 |
|  |  |  | Channel 8 | 0-255 |
|  |  |  | Channel 9 | 0-255 |
|  |  |  | Channel 10 | 0-255 |
|  |  |  | Channel 11 | 0-255 |
|  |  |  | Channel 12 | 0-255 |
|  |  |  | Channel 13 | 0-255 |
|  |  |  | Channel 14 | 0-255 |
|  |  |  | Channel 15 | 0-255 |
|  |  |  | Channel 16 | 0-255 |
|  |  |  | Time | 0-255 |
|  |  |  | Channel 1 | 0-255 |
|  |  |  | Channel 2 | 0-255 |
|  |  |  | Channel 3 | 0-255 |
|  |  |  | Channel 4 | 0-255 |
|  |  |  | Channel 5 | 0-255 |
|  |  |  | Channel 6 | 0-255 |
|  |  |  | Channel 7 | 0-255 |
|  |  | Step 07 | Channel 8 | 0-255 |
|  |  |  | Channel 9 | 0-255 |
|  |  |  | Channel 10 | 0-255 |
|  |  |  | Channel 11 | 0-255 |
|  |  |  | Channel 12 | 0-255 |
|  |  |  | Channel 13 | 0-255 |
|  |  |  | Channel 14 | 0-255 |
|  |  |  | Channel 15 | 0-255 |
|  |  |  | Channel 16 | 0-255 |
|  |  |  | Time | 0-255 |
|  |  |  | Channel 1 | 0-255 |
|  |  |  | Channel 2 | 0-255 |
|  |  |  | Channel 3 | 0-255 |
|  |  |  | Channel 4 | 0-255 |
|  |  |  | Channel 5 | 0-255 |
|  |  |  | Channel 6 | 0-255 |
|  |  |  | Channel 7 | 0-255 |
|  |  | Step 08 | Channel 8 | 0-255 |
|  |  |  | Channel 9 | 0-255 |
|  |  |  | Channel 10 | 0-255 |
|  |  |  | Channel 11 | 0-255 |
|  |  |  | Channel 12 | 0-255 |
|  |  |  | Channel 13 | 0-255 |
|  |  |  | Channel 14 | 0-255 |
|  |  |  | Channel 15 | 0-255 |
|  |  |  | Channel 16 | 0-255 |
|  |  |  | Time | 0-255 |
|  |  |  | Channel 1 | 0-255 |
|  |  | Step 09 | Channel 2 | 0-255 |
|  |  | Step 09 | Channel 3 | 0-255 |
|  | www.lucasled.gr |  | Channel 4 | 0-255 |
|  |  |  | Channel 5 | 0-255 |


|  |  |  | Channel 6 | 0-255 |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Channel 7 | 0-255 |
|  |  |  | Channel 8 | 0-255 |
|  |  |  | Channel 9 | 0-255 |
|  |  |  | Channel 10 | 0-255 |
|  |  |  | Channel 11 | 0-255 |
|  |  |  | Channel 12 | 0-255 |
|  |  |  | Channel 13 | 0-255 |
|  |  |  | Channel 14 | 0-255 |
|  |  |  | Channel 15 | 0-255 |
|  |  |  | Channel 16 | 0-255 |
|  |  |  | Time | 0-255 |
|  |  |  | Channel 1 | 0-255 |
|  |  |  | Channel 2 | 0-255 |
|  |  |  | Channel 3 | 0-255 |
|  |  |  | Channel 4 | 0-255 |
|  |  |  | Channel 5 | 0-255 |
|  |  |  | Channel 6 | 0-255 |
|  |  |  | Channel 7 | 0-255 |
|  |  | Step 10 | Channel 8 | 0-255 |
|  |  |  | Channel 9 | 0-255 |
|  |  |  | Channel 10 | 0-255 |
|  |  |  | Channel 11 | 0-255 |
|  |  |  | Channel 12 | 0-255 |
|  |  |  | Channel 13 | 0-255 |
|  |  |  | Channel 14 | 0-255 |
|  |  |  | Channel 15 | 0-255 |
|  |  |  | Channel 16 | 0-255 |
|  |  |  | Time | 0-255 |
|  |  |  | Channel 1 | 0-255 |
|  |  |  | Channel 2 | 0-255 |
|  |  |  | Channel 3 | 0-255 |
|  |  |  | Channel 4 | 0-255 |
|  |  |  | Channel 5 | 0-255 |
|  |  |  | Channel 6 | 0-255 |
|  |  |  | Channel 7 | 0-255 |
|  |  | Step 11 | Channel 8 | 0-255 |
|  |  |  | Channel 9 | 0-255 |
|  |  |  | Channel 10 | 0-255 |
|  |  |  | Channel 11 | 0-255 |
|  |  |  | Channel 12 | 0-255 |
|  |  |  | Channel 13 | 0-255 |
|  |  |  | Channel 14 | 0-255 |
|  |  |  | Channel 15 | 0-255 |
|  |  |  | Channel 16 | 0-255 |
|  |  |  | Time | 0-255 |
|  |  |  | Channel 1 | 0-255 |
|  |  | Step 12 | Channel 2 | 0-255 |
|  |  | Step 12 | Channel 3 | 0-255 |
|  | www.lucasled.gr |  | Channel 4 | 0-255 |
|  |  |  | Channel 5 | 0-255 |


|  |  |  |  | Channel 6 | 0-255 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Channel 7 | 0-255 |
|  |  |  |  | Channel 8 | 0-255 |
|  |  |  |  | Channel 9 | 0-255 |
|  |  |  |  | Channel 10 | 0-255 |
|  |  |  |  | Channel 11 | 0-255 |
|  |  |  |  | Channel 12 | 0-255 |
|  |  |  |  | Channel 13 | 0-255 |
|  |  |  |  | Channel 14 | 0-255 |
|  |  |  |  | Channel 15 | 0-255 |
|  |  |  |  | Channel 16 | 0-255 |
|  |  |  | Choose Step | 0-1 |  |
|  |  | 2, Record DMX | Time | 0-25 |  |
|  |  |  | Record |  |  |
|  |  | 3, All Cleaning |  |  |  |
| 8, Advanced Setting | Fine | X |  | -300-300 |  |
|  |  | Y |  | -300-300 |  |
|  |  | Color |  | -300-300 |  |
|  |  | Gobo |  | -300-300 |  |
|  |  | Dimmer |  | -300-300 |  |
|  |  | Prism 1 |  | -300-300 |  |
|  |  | Prism 2 |  | -300-300 |  |
|  |  | Focus |  | -300-300 |  |
|  |  | Rainbow Effect |  | -300-300 |  |
|  |  | Prism Half-Step fine |  | -300-300 |  |
|  |  | Prism 1 Half-Step fine |  | -300-300 |  |
|  |  | Prism 2 Half-Step fine |  | -300-300 |  |
|  |  | Frost Half-Step fine |  | -300-300 |  |
|  | Display | Overturn |  |  |  |
|  | Language | Chinese/English |  | Yes/No |  |
|  | Ignore Errors | Code disk waveform |  | Yes/No |  |
|  | Fine Recovery |  |  |  |  |
| 9, Information | DMX Value |  |  |  |  |
|  | Mistake | Used Time |  |  |  |
|  |  | Time Clear |  |  |  |
|  | Test Mode | Fan Test |  |  |  |
|  |  | XY Speed |  |  |  |

## 10. Channe

| Mode/Channel |  | description |
| :---: | :---: | :---: |
| 16 | Value |  |
| 1 |  | Color Wheel |
|  | 0-4 | White |
|  | 5-9 | White + Red |
|  | 10-13 | Red |
|  | 14-18 | Red + Deep Yellow |


|  | 19-22 | Deep Yellow |
| :---: | :---: | :---: |
|  | 23-27 | Deep Yellow + Green |
|  | 28-31 | Green |
|  | 32-36 | Green + Yellow Green |
|  | 37-40 | Yellow Green |
|  | 41-45 | Yellow Green + Blue |
|  | 46-49 | Blue |
|  | 50-54 | Blue + Rose Red |
|  | 55-58 | Rose Red |
|  | 59-63 | Rose Red+Light Blue |
|  | 64-67 | Light Blue |
|  | 68-72 | Light Blue+Light Yellow |
|  | 73-76 | Light Yellow |
|  | 77-76 | Light Yellow + Purplish Red |
|  | 82-85 | Purplish Red |
|  | 86-90 | Purplish Red + Brownish Yellow |
|  | 91-94 | Brownish Yellow |
|  | 95-99 | Brownish Yellow + Brown |
|  | 100-103 | Brown |
|  | 104-108 | Brown + Cold White |
|  | 109-112 | Cold White |
|  | 113-117 | Cold White+Deep Blue |
|  | 118-121 | Deep Blue |
|  | 122-127 | Deep Blue+White |
|  | 128-190 | Counterclockwise rainbow effect, from fast to slow |
|  | 191-192 | rainbow effect stop |
|  | 193-255 | Clockwise rainbow effect, from slow to fast |
| 2 |  | Shutter |
|  | 0-3 | Close |
|  | 4-103 | Shutter from slow to fast |
|  | 104-107 | open |
|  | 108-157 | Fast open slow close,from slow to fast |
|  | 158-207 | Fast close slow open, from fast to slow |
|  | 208-212 | open |
|  | 213-251 | Random shutter, from slow to fast |
|  | 252-255 | Open |
| 3 |  | Dimmer |
|  | 0-255 | 0-100\% Dimmer |
|  |  |  |
| 4 |  | Gobo |
|  | 0-3 | white |
|  | 4-9 | Gobo1 |
|  | 10-15 | Gobo2 |
|  | 16-21 | Gobo3 |
|  | 22-27 | Gobo4 |
|  | 28-33 | Gobo5 |
|  | 34-39 | Gobo6 |
|  | 40-45 | Gob.e.Zasled.gr |
|  | 46-51 | Gobo8 |


|  | 52-57 | Gobo9 |
| :---: | :---: | :---: |
|  | 58-63 | Gobo10 |
|  | 64-69 | Gobo11 |
|  | 70-75 | Gobo12 |
|  | 76-87 | Gobo13 |
|  | 88-95 | Gobo1: Shake from slow to fast |
|  | 96-103 | Gobo2: Shake from slow to fast |
|  | 104-111 | Gobo3: Shake from slow to fast |
|  | 112-119 | Gobo4: Shake from slow to fast |
|  | 120-127 | Gobo5: Shake from slow to fast |
|  | 128-135 | Gobo6: Shake from slow to fast |
|  | 136-143 | Gobo7: Shake from slow to fast |
|  | 144-151 | Gobo8: Shake from slow to fast |
|  | 152-159 | Gobo9: Shake from slow to fast |
|  | 160-167 | Gobo10: Shake from slow to fast |
|  | 168-175 | Gobo11: Shake from slow to fast |
|  | 176-183 | Gobo12: Shake from slow to fast |
|  | 184-191 | Gobo13: Shake from slow to fast |
|  | 192-201 | Empty |
|  | 202-227 | Gobo Flow clockwise, from fast to slow |
|  | 228-229 | Stop |
|  | 230-255 | Gobo Flow Counterclockwise, from fast to slow |
| 5 | 1-255 | Rainbow effect |
| 6 |  | Prism |
|  | 0-63 | No Prism |
|  | 64-127 | Prism 1 |
|  | 128-191 | Prism 2 |
|  | 192-255 | Prism 1 + Prism 2 |
|  |  |  |
| 7 |  | Prism macro effect |
|  | 0-15 | Nothing |
|  | 16-55 | Prism 2 shake from slow to fast,prism 1 disappear |
|  | 56-95 | Prism 1 shake from slow to fast,prism 2 disappear |
|  | 96-135 | Prism 2 shake from slow to fast,prism 1 activate |
|  | 136-175 | Prism 1 shake from slow to fast,prism 2 activate |
|  | 176-215 | Prism 1 + Prism 2 shake together, from slow to fast |
|  | 216-255 | Prism 1 and prism 2 shake interactively from slow to fast, overlapping |
| 8 |  | Prism 1 and Prism 2 Positioning and Rotating |
|  | 0-127 | Prism 1 Positioning and Rotating |
|  | 128-190 | Prism 1 rotates in reverse, from fast to slow |
|  | 191-192 | Rxismaclastapp rotating |
|  | 193-255 | Prism 1 rotates forward, from slow to fast |


| 9 |  | Frost |
| :---: | :---: | :---: |
|  | 0-1 | No Frost |
|  | 1-255 | Frost |
| 10 |  | Focus |
|  | 0-255 | Focus from far to near |
| 11 |  | Pan |
|  | 0-255 | Pan Rotate |
| 12 |  | Pan Fine |
|  | 0-255 | Pan Fine |
| 13 |  | Tilt |
|  | 0-255 | Tilt Rotate |
| 14 |  | Tilt Fine |
|  | 0-255 | Tilt Fine |
| 15 |  | Pan/Tilt Speed |
|  | 0 | Max Speed |
|  |  | Speed Mode |
|  | 1-255 | Speed from fast to slow |
|  |  | Time Mode |
|  | 1-255 | Time from 0.1 second o 25.5 second |
| 16 |  | Function |
|  | To achieve the following effect, push the DMX value to the appropriate position and keep for at least 4 seconds |  |
|  | 0-99 | Empty |
|  | 100-109 | Pan/Tilt reset |
|  | 110-119 | Function Reset |
|  | 120-129 | All Reset |
|  | 130-159 | Empty |
|  | 160-191 | Lamp Off |
|  | 192-229 | Empty |
|  | 224-255 | Lamp On |

## 11:FAILURE SCOREBOARD AND SOLUTIONS

Listed below is a common approach in the operation of a few common problems.
$\diamond$ Fault A: The lamp is not working, the bulb is not lit, the fan does not work
Solving 1: Check the power supply or the fuse is burned.
Solve 2: The main power connector on the voltage detector.

Solving 1: After connecting control units,lighting should be working. If it is not working properly, check the signal cable plugs and wires are connected correctly.

Solve 2: If the lamp is lit display, but the channel does not respond, check the address code is set correctly and DMX output voltage polarity.

Solve 3: DMX signal problems if your lighting is off,check the input terminal and the circuit board.

Solve 4:Please change another one DMX controller.

Solve 5: Check whether the signal cable near high voltage power lines caused DMX display board inside the wire damage.
$\diamond$ Fault C: some channel is not working
Solving 1:stepper motor may be damaged,or the line connecting the motherboard burned out.

Solve 2:IC driver board on the motherboard may be damaged.

## 12: CLEAN LIGHTS

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output.

Cleaning frequency depends on the environment in which the fixture operates: damp,smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid.
Always dry the parts carefully.
Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

Clean the fans on the head and base every 20 days.
Disconnect the fixture before clear.

## 13. 15R BEAM Illumination

## BEAM ILLUMINATION



