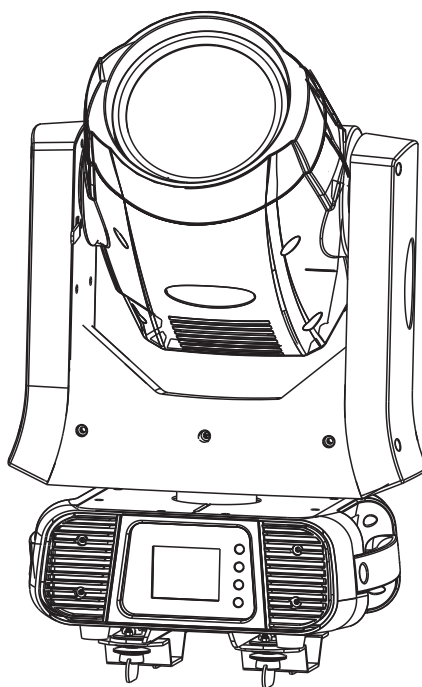


# SI-219 PROBEAM 191



CE   IP20 LED  0.2m  t<sub>a</sub> 40°C t<sub>c</sub> 150°C

# User Manual

KEEP THIS MANUAL FOR FUTURE NEEDS

# 1

## **SAFETY INSTRUCTIONS**



### **CAUTION**

Becareful with your operations. With a dangerous voltage you cansuffer 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.



### **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 temperature.

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.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

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.

Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

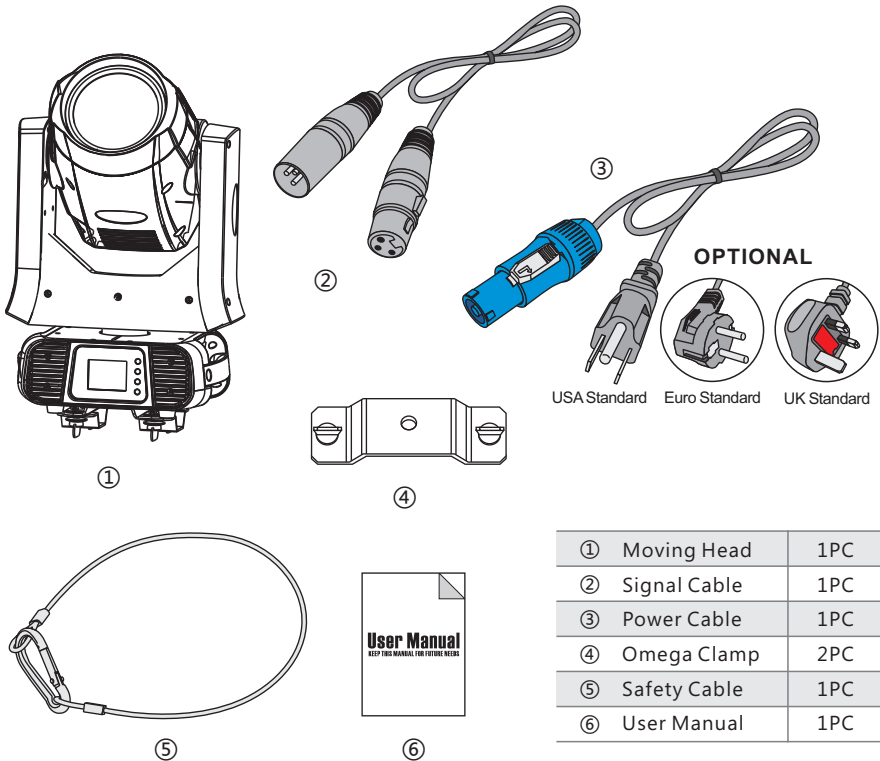
If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

## 2 UNPACKING

Thank you for choosing our PROBEAM 191. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

The PROBEAM 191 is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

The PROBEAM 191 adopts a 191W white LED lamp which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:



# **3 FEATURES & SPECIFICATIONS**

## **Features**

- 1\*OSRAM SIRIUS HRI 191W Lamp
- 2000 hours rated lamp source
- Electronic ballast and power supply
- Smooth and precise resolution for PAN/TILT movement
- 540°PAN and 270°TILT movement optional
- Scan position memory, auto reposition after unexpected movement
- 2.5° Beam angle
- Improved optics and flat beam field
- No need for adjustment of reflector or lamp
- Anti-reflection 136mm front lenses
- 1 Static gobo wheel with 16 gobos plus open
- 1 Color wheel with 11 colors plus open
- Variable direction rainbow effect with speed adjustable
- Motorized focus from near to far
- 16-facet prism with variable speed and direction
- 16-Facet+8-facet prism with variable speed and direction
- Combined prism effect by 16-facet prism and 16-Facet+8-facet prism with variable speed and direction
- Frost filter available (Hybrid effect for wash)
- Dual flag mechanical dimming system
- 20T/sec high speed LED shutter/strobe effect with variable speed
- Preset variable/random strobe and dimming pulse effect
- 14/16 DMX channels USITT DMX-512
- Vector mode with blackout MIB function
- DMX512, master-slave and sound activated controllable or auto operation
- Sound control with sensitivity adjustment
- RDM available (Remote Device Management)
- Art-NET as optional
- Wireless Solution's wireless receiver system built-in as optional

- 2.4" TFT LCD display with 4 control buttons and battery back-up for menu preset
- 180°Reversible for LCD display
- LCD display switch-off automatically after 60 seconds
- DMX signal monitoring indicator available
- Software up-datable through DMX connectors
- Efficient low noise self adjusting fan cooling system
- Constant temperature readout and management function
- Over heat protection management
- Powercon IN/ OUT with power switch and fuse
- 3-Pin XLR DMX connectors IN/OUT
- IP20 protection rating
- -35°C to 45°C ambient temperature
- 2\*1/4 turn fastening Omega Clamps (Adaptable vertically and horizontally)
- 1\*Safety attachment point

## Specifications

**Input Voltage:** AC100-240V 50/60Hz

**LED Quantities:** 1\*OSRAM SIRIUS HRI 191W Lamp

**Control Signal:** DMX512, master-slave and sound activated or auto operation

**Control Channel:** 14/16 DMX channels USITT DMX-512

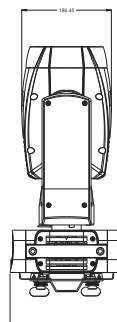
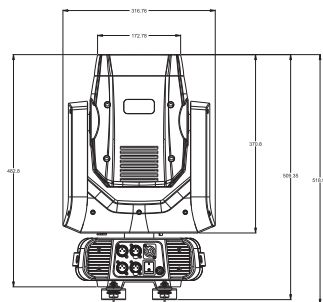
**Power Consumption:** 230W

**Dimensions:** 209(D)\*367(W)\*505(H)mm

**Packing Dimensions:** 420(D)\*445(W)\*515(H)mm

**Net Weight:** 14kg

**Gross Weight:** 17kg



## **4**

## **OPERATION INSTRUCTIONS**

- The PROBEAM 191 is for beam effect for on-site decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

## **5** *INSTALLATIONS*

**Cautions:** For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.

from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

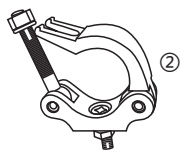
Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

**Mounting points:** Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

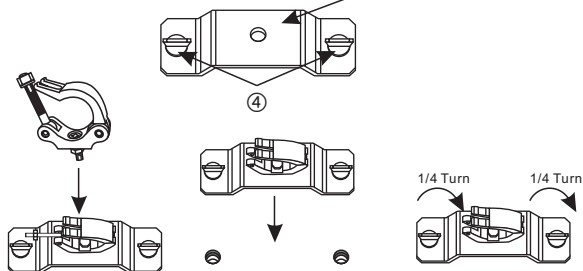
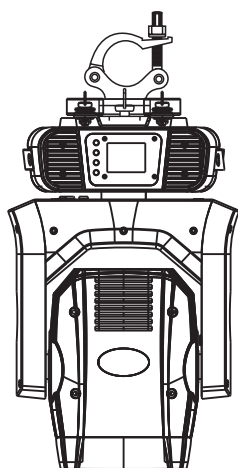
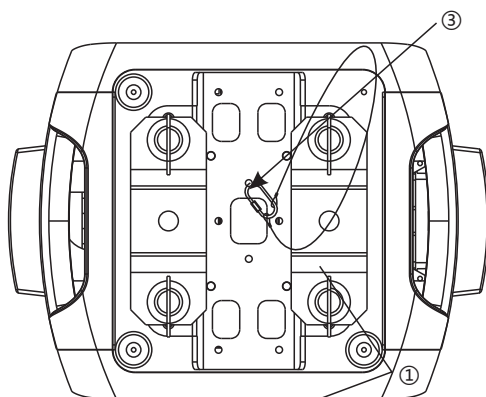
Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

**Clamp Mounting:** The PROBEAM 191 provides two unique mounting bracket assembly that integrates the bottom of the base, the included "Omega Bracket," and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "omega bracket". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly.

Regardless of the rigging option you choose for your PROBEAM 191, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.



- ① Omega Bracket
- ② Safety Clamp
- ③ Safety Cable
- ④ 1/4 Turn Quick-Lock Fasteners



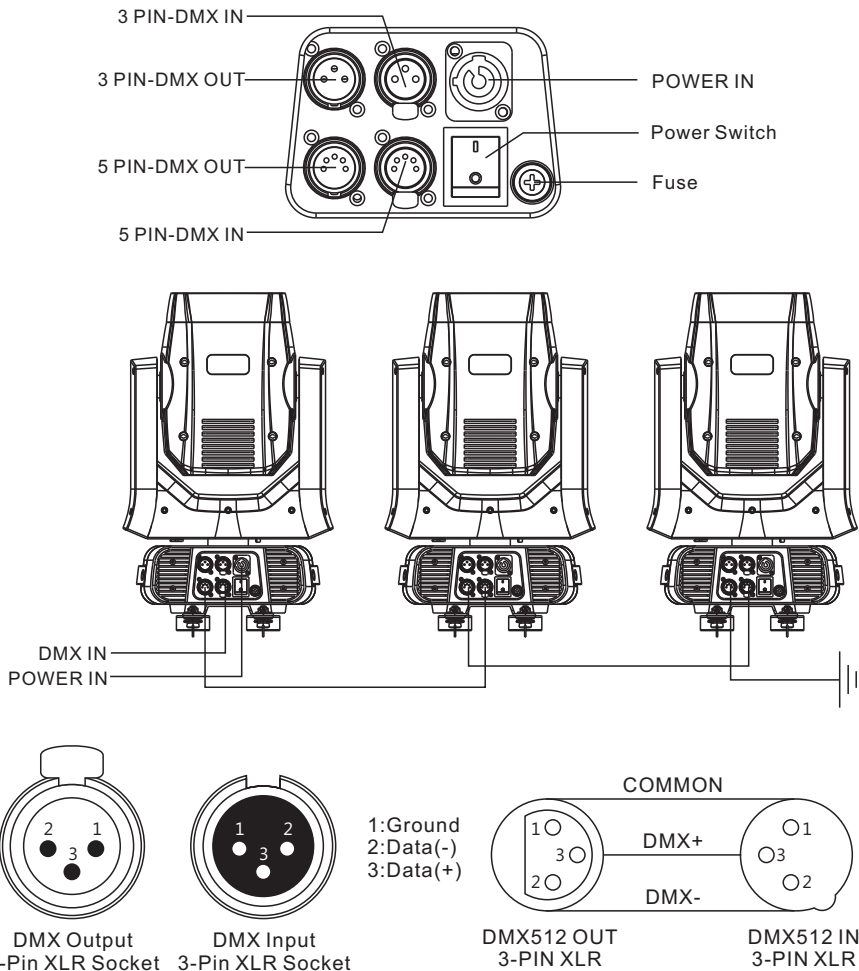


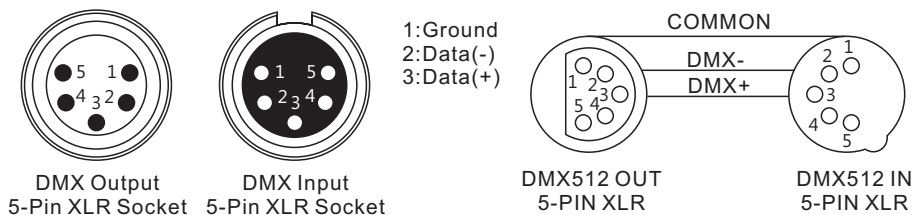
# 6

## DMX-512 CONTROL CONNECTIONS

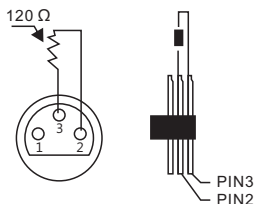
Connect the provided XLR cable to the female 3/5-pin XLR output of your controller and the other side to the male 3/5-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX-512 connection with DMX terminator

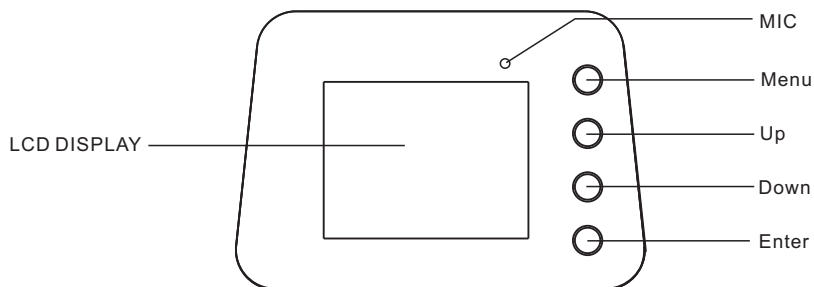




For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120  $\Omega$  resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



## 7 MENU OPERATIONS



|      |         |  |                        |   |
|------|---------|--|------------------------|---|
| MENU | DMX512  | Dmx Address  | 1-512                  | DMX address setting                     |
|      |         | Dmx Channel  | Mode1(14CH)            | Standard channel                        |
|      |         |  | Mode2(16CH)            | Vector channel                          |
|      |         | Dmx Value  |                        | Dmx value form                          |
|      |         | Wireless Option  | Wireless Priority      | Wireless priority                       |
|      |         |  | XLR Priority           | XLR priority                            |
|      |         |  | Wireless Only          | Wireless only                           |
|      |         |  | XLR Only               | XLR only                                |
|      | Setting | Pan Inverse  | Off                    | Pan inverse close                       |
|      |         |  | On                     | Pan inverse open                        |
|      |         | Tilt Inverse   | Off                    | Tilt inverse close                      |
|      |         |  | On                     | Tilt inverse open                       |
|      |         | Lamp On Power  | Off                    | Lamp on power close                     |
|      |         |  | On                     | Lamp on power open                      |
|      |         | Lamp status  | Off                    | Lamp status close                       |
|      |         |  | On                     | Lamp status open                        |
|      | Show    | Standly  | *                      | Show mode                               |
|      | Manual  | Pan  | 000-255                | Pan manual adjust                       |
|      |         | Tilt   | 000-255                | Tilt manual adjust                      |
|      |         | Color  | 000-255                | Color manual adjust                     |
|      |         | Gobo   | 000-255                | Gobo manual adjust                      |
|      |         | Strobe   | 000-255                | Strobe manual adjust                    |
|      |         | Dimmer   | 000-255                | Dimmer manual adjust                    |
|      |         | Focus  | 000-255                | Focus manual adjust                     |
|      |         | Prism 1  | 000-255                | Prism 1 manual adjust                   |
|      |         | Prism 2  | 000-255                | Prism 2 manual adjust                   |
|      |         | Frost  | 000-255                | Frost manual adjust                     |
|      | Rexet   | All Reset  | Are you sure<br>No/Yes | All reset<br>Menu=No,Enter=Yes          |
|      |         | Pan&Tilt Reset   | Are you sure<br>No/Yes | Pan and Tilt reset<br>Menu=No,Enter=Yes |
|      |         | Other Reset  | Are you sure<br>No/Yes | Other reset<br>Menu=No,Enter=Yes        |
|      |         | Factory Set  | Are you sure<br>No/Yes | Factory set<br>Menu=No,Enter=Yes        |
|      | Display | Language   | English                | English                                 |
|      |         |  | 中文简体                   | Chinese                                 |
|      |         | BackLight  | Auto Close             | Backlight auto close                    |
|      |         |  | Always Light           | Backlight always light                  |
|      |         | Direction  | Forward                | Display forward                         |
|      |         |  | Reverse                | Display reverse                         |
|      | Infor   | Version:01-02-02<br>Temperatures:XX°C<br>Fan State:1/2:0000/0000<br>Remain Time:9999:00:00 |                        | Information                             |

|  |          |  |                  |                  |
|--|----------|--|------------------|------------------|
|  |          | Used Time:00:00 Lamp:00:00<br>Reset Error: |                  |                  |
|  | Advanced | Enter Password                             | UP+DOWN+ENTER+UP | Advanced setting |

## 8 DMX CHANNELS

| Channel |      | Function     | Values  | Description                                      |
|---------|------|--------------|---------|--|
| 14CH    | 16CH |              |         |  |
| 1       | 1    | Pan          | 0-255   | PAN Movement                                     |
| 2       | 2    | Pan-fine     | 0-255   | Fine control of Pan movement                     |
| 3       | 3    | Tilt         | 0-255   | Tilt Movement                                    |
| 4       | 4    | Tilt-fine    | 0-255   | Fine control of Tilt movement                    |
| 5       | 5    | Color wheel1 | 0-4     | Open / white                                     |
|         |      |              | 5-9     | White+Color 1                                    |
|         |      |              | 10-14   | Color 1  |
|         |      |              | 15-19   | Color 1+Color 2                                  |
|         |      |              | 20-24   | Color 2  |
|         |      |              | 25-29   | Color 2+Color 3                                  |
|         |      |              | 30-34   | Color 3  |
|         |      |              | 35-39   | Color 3+Color 4                                  |
|         |      |              | 40-44   | Color 4  |
|         |      |              | 45-49   | Color 4+Color 5                                  |
|         |      |              | 50-54   | Color 5  |
|         |      |              | 55-59   | Color 5+Color 6                                  |
|         |      |              | 60-64   | Color 6  |
|         |      |              | 65-69   | Color 6+Color 7                                  |
|         |      |              | 70-74   | Color 7  |
|         |      |              | 75-79   | Color 7+Color 8                                  |
|         |      |              | 80-84   | Color 8  |
|         |      |              | 85-89   | Color 8+Color 9                                  |
|         |      |              | 90-94   | Color 9  |
|         |      |              | 95-99   | Color 9+Color 10                                 |
|         |      |              | 100-104 | Color 10   |
|         |      |              | 105-109 | Color 10+Color 11                                |
|         |      |              | 110-114 | Color 11   |
|         |      |              | 115-127 | Color 11+White                                   |
|         |      |              | 128-189 | Forwards color wheel rotation from fast to slow  |
|         |      |              | 190-193 | color wheel rotation stop                        |
|         |      |              | 194-255 | Backwards color wheel rotation from slow to fast |
| 6       | 6    | Gobo wheel   | 0-4     | Open/White                                       |
|         |      |              | 5-9     | Gobo 1   |
|         |      |              | 10-14   | Gobo 2   |

|   |   |            |         |                                       |
|---|---|------------|---------|---------------------------------------|
| 6 | 6 | Gobo wheel | 10-14   | Gobo 2                                |
|   |   |            | 15-19   | Gobo 3                                |
|   |   |            | 20-24   | Gobo 4                                |
|   |   |            | 25-29   | Gobo 5                                |
|   |   |            | 30-34   | Gobo 6                                |
|   |   |            | 35-39   | Gobo 7                                |
|   |   |            | 40-44   | Gobo 8                                |
|   |   |            | 45-49   | Gobo 9                                |
|   |   |            | 50-54   | Gobo 10                               |
|   |   |            | 55-59   | Gobo 11                               |
|   |   |            | 60-64   | Gobo 12                               |
|   |   |            | 65-69   | Gobo 13                               |
|   |   |            | 70-74   | Gobo 14                               |
|   |   |            | 75-79   | Gobo 15                               |
|   |   |            | 80-84   | Gobo 16                               |
|   |   |            | 85-92   | Gobo 1 shake from slow to fast        |
|   |   |            | 93-100  | Gobo 2 shake from slow to fast        |
|   |   |            | 101-108 | Gobo 3 shake from slow to fast        |
|   |   |            | 109-116 | Gobo 4 shake from slow to fast        |
|   |   |            | 117-124 | Gobo 5 shake from slow to fast        |
|   |   |            | 125-132 | Gobo 6 shake from slow to fast        |
|   |   |            | 133-140 | Gobo 7 shake from slow to fast        |
|   |   |            | 141-148 | Gobo 8 shake from slow to fast        |
|   |   |            | 149-156 | Gobo 9 shake from slow to fast        |
|   |   |            | 157-164 | Gobo 10 shake from slow to fast       |
|   |   |            | 165-172 | Gobo 11 shake from slow to fast       |
|   |   |            | 173-180 | Gobo 12 shake from slow to fast       |
|   |   |            | 181-188 | Gobo 13 shake from slow to fast       |
|   |   |            | 189-196 | Gobo 14 shake from slow to fast       |
|   |   |            | 197-204 | Gobo 15 shake from slow to fast       |
|   |   |            | 205-212 | Gobo 16 shake from slow to fast       |
|   |   |            | 213-255 | Gobo wheel rotation from slow to fast |
| 7 | 7 | Strobe     | 0-31    | Strobe close                          |
|   |   |            | 32-63   | Strobe open                           |
|   |   |            | 64-95   | Strobe speed from slow to fast        |
|   |   |            | 96-127  | Strobe open                           |
|   |   |            | 128-143 | Fast closing from slow to fast        |
|   |   |            | 144-159 | Fast opening from slow to fast        |
|   |   |            | 160-191 | Strobe open                           |
|   |   |            | 192-223 | Random strobe from slow to fast       |
|   |   |            | 224-255 | Strobe open                           |
| 8 | 8 | Dimmer     | 0-255   | 0%~100% dimmer                        |
| 9 | 9 | Focus      | 0-255   | In(near)to out(far)                   |

|    |    |                  |         |                                     |
|----|----|------------------|---------|-------------------------------------|
| 10 | 10 | Prism 1          | 0-5     | OFF                                 |
|    |    |                  | 6-127   | ON                                  |
|    |    |                  | 128-129 | Forwards rotation from fast to slow |
|    |    |                  | 190-193 | Prism rotation stop                 |
|    |    |                  | 194-255 | Forwards rotation from fast to slow |
| 11 | 11 | Prism 2          | 0-5     | OFF                                 |
|    |    |                  | 6-127   | ON                                  |
|    |    |                  | 128-129 | Forwards rotation from fast to slow |
|    |    |                  | 190-193 | Prism rotation stop                 |
|    |    |                  | 194-255 | Forwards rotation from fast to slow |
| 12 | 12 | Frost            | 0-199   | Frost OFF                           |
|    |    |                  | 200-255 | Frost ON                            |
| 13 | 13 | Pan/Tilt speed   | 0-225   | Max to min speed                    |
|    |    |                  | 226-235 | Blackout by movement                |
|    |    |                  | 236-245 | Blackout by all wheel changing      |
|    |    |                  | 246-255 | No function                         |
| 14 | 14 | Special function | 0-39    | No function                         |
|    |    |                  | 40-59   | Lamp open                           |
|    |    |                  | 60-79   | Lamp close                          |
|    |    |                  | 80-84   | All reset                           |
|    |    |                  | 85-87   | Pan&Tilt reset                      |
|    |    |                  | 88-90   | Color reset                         |
|    |    |                  | 91-93   | Gobo reset                          |
|    |    |                  | 94-96   | Strobe reset                        |
|    |    |                  | 97-99   | Other reset                         |
|    |    |                  | 100-119 | Internal program 1                  |
|    |    |                  | 120-139 | Internal program 2                  |
|    |    |                  | 140-159 | Internal program 3                  |
|    |    |                  | 160-179 | Internal program 4                  |
|    |    |                  | 180-199 | Internal program 5                  |
|    |    |                  | 200-219 | Internal program 6                  |
|    |    |                  | 220-239 | Internal program 7                  |
|    |    |                  | 240-255 | Internal program 8                  |
|    | 15 | Color time       | 0-255   | Max to min speed                    |
|    | 16 | Gobo time        | 0-255   | Max to min speed                    |

## 9

## MAINTENANCE AND CLEANING

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, color lenses, fixations and installation 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.

There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.



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