

**AQUA XLED 6019**  
**PR-8229**

This product manual contains important information about the safe installation and use of this product. Please read and follow these instructions carefully before installing and using the product and keep this manual in a safe place for future reference.

PR LIGHTING LTD.  
<http://www.pr-lighting.com>

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## ACCESSORIES

The following items are supplied with the projector and please check:

| Name        | Quantity | Unit | Remark  |
|-------------|----------|------|---------|
| Power cord  | 1        | Pc   |         |
| XLR cable   | 1        | pc   |         |
| Safety cord | 1        | Pc   |         |
| User Manual | 0        | Pc   | QR Code |

**Please note that as part of our ongoing commitment to continuous product development, specifications are subject to change without notice. Whilst every care is taken in the preparation of the manual we reserve the right to change specifications in the course of product improvement. The publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from them.**

**Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and / or the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer and / or dealer.**

**Note: For the products made by Guangzhou PR lighting Ltd, the warranty for the whole product is one year starting from the delivery date but the light source is not within the warranty.**






## 1.SAFETY AND WARNINGS



### NOTE

Before a projector's installation, power-on, operation and maintenance, please carefully read the safety information hereinafter!

The following safety signs are used in the user manual.

|   |   |   |   |  |   |   |
|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |
| <b>Warning</b>  | <b>User Manual</b>  | <b>Electrical shock</b>   | <b>Goggles</b>  | <b>Protective Gloves</b>   | <b>Flames</b>   | <b>High Temperature</b>   |



- When unpacking , check if there is transportation damage before using the projector. Should there be any damage caused by transportation, consult your dealer and do not use it.
- The manufacture is not responsible for loss caused by the user not following the manual or changing the projector as he/she likes
- Please be noted that the damage caused by changing the projector at will is not warranted.
- Do not hesitate to contact the dealer or the manufacturer if any questions or advice.
- If some LED lamps are damaged or deform because of heat, it should be replaced.



- The projector is for indoor use only, IP65.
- Running in damp, over-heat and dusty places.
- The projector should be kept away from high temperature, fire, electrical surge, vibration and strong light while being operated
- The projector is only intended for installation, operation and maintenance by qualified personnel. And the operation must strictly follow the procedures in the manual
- No repairable parts in the projector and do not open covers for maintenance by yourself.



- Don't look straightly into the light sources especially for epileptics, otherwise eyes will be burned..
- Do not connect this device to any type of dimmer pack.
- If the light source, lens and screen protective cover of the a projector have obvious damage, i.e., to the extent that it hurts the performance like cracking or deformation, please stop using it and replace them with the original parts, otherwise its performance will be compromised.
- For the location of a projector, it shouldn't be seen in the distance of less than 4 meters.



- Before operation, please confirm that all covers(housing) are on and screws tightened. It's forbidden to use a projector while its covers(housing)are off .
- Keep the light source clean and do not touch it with bare hands.
- While operating it, wear protective items like goggle and gloves.



- Any electrical connection must be carried out by a qualified person .
- Before installation, please confirm the voltage supplied matches what is required for a projector.
- Each projector must be properly earthed and installed as per related electrical standards.
- Do not use power cord with its insulator damaged and connect the power cord with other cables.
- If a projector is not used or under cleaning,, please hold its plug and unplug it. Do not unplug it forcefully or by pulling the power cable.
- All power cords must conform to related safety and regulations.
- While being operated, if a projector is not waterproof and dust-proof, it should not be under rains or in humidity to avoid being short.
- Do not switch on and off a projector constantly in very short intervals, otherwise its light source's and other

electrical parts' life will be shortened .



- There are safety cord holes at the bottom of the base of a projector. In view of safety, please run the safety cord supplied through the safety cord holes for safety support.
- Before any installation, maintenance and cleaning work, please ensure a projector is disconnected from power mains.



- While being in stable working state under normal ambient temperature, the temperature of the surface of the metallic housing of a projector including heat sink will reach 75°C.
- While its LEDs on for the first time, there will be smoke and strange smell. It's normal and does not mean a projector has some defects.



- While a projector running, do not touch the metallic housing to avoid being burned.
- Do not mount a projector directly on inflammable surface.
- Do not project the beam straightly on combustible items and the minimum distance between it and illuminated items is 5 m.
- A projector should be installed with good ventilation and the minimum distance between it and walls is 50cm. At the same time, please ensure the fans and air inlets and outlets are workable.
- Do not let the front lens expose to sunlight or other strong light sources at any angle, otherwise the focused beam inside can result in fire potentially.



- The product meets The General Technical Requirements and Standards for Recycle and Use Of Expired Appliance and Electronic Products.
- When the product meets disposal standards and needs to be disposed, a client needs to dispose and recycle it.

## 2. INSTRUCTIONS

### ●CLEANING AND MAINTENANCE

Under normal running, the projector's protective device should be checked periodically, for example, if the power fuse is blown up or not. If it does, replace it with a new fuse with same ratings. Please be noted the new and old ones are of same ratings.

The projector has over-temperature protective device. If the temperature is too high, the protective device will be triggered to shut the projector off automatically. Please check the cooling components periodically including cooling fans, heat sink or other cooling parts. Please check if the fans run normally or fan shield is blocked by dust. Ensure the air inlets/outlets are clear. The cooling fans must be cleaned very 15 days.

The accumulation of oil, smoke and dust on the lens, reflectors and coated filters will compromise the light output. Cleaning a projector is very necessary to ensure a reliable use of it. Internal lens, flat glass, reflector and coated filters need to be cleaned periodically to optimize light output.

Cleaning frequency is to be decided by operations and its environment. Use soft cloth and normal detergent for glass for cleaning work. It's advised external optical system be cleaned every 20days and internal optical systems every 30/60days. Keep lens clean and do not touch optical parts with bare hands.

**Special note: It's normal phenomena that there will be mild water mist on the lens while the waterproof product is in use.**



- Before any maintenance and cleaning, please ensure the project is off the power
- Only qualified person is allowed to do maintenance



- To avoid internal damage, sun light or other light mustn't penetrate into the projector via front lens whether it runs or not
- Do not use alcohol or other organic solvent to clean the housing to avoid damage.
- Do not use any solvent with chemical elements to clean color filters.

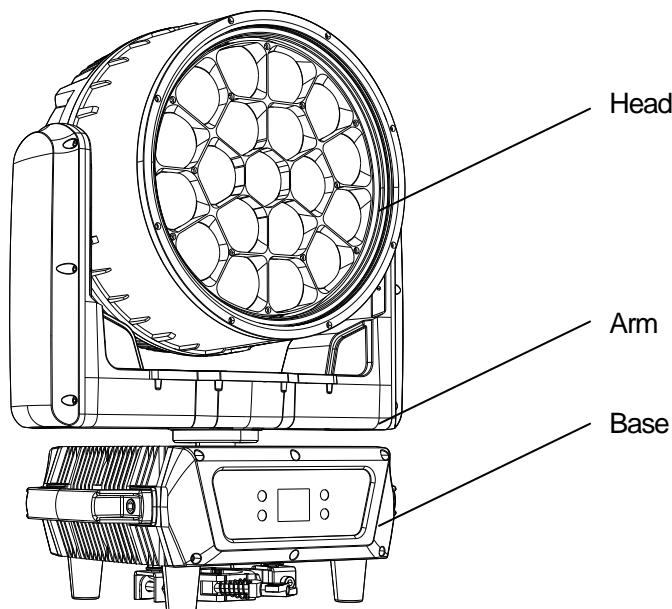
**.LUBRICATION**

To ensure smooth movement of gobos and zoom and focus lens, it's advised rotators' bearings and 2 sliding bars for zoom and focus lens be lubricated every 2 months. High quality and high temperature lubricant/grease is advised..

**.TROUBLESHOOTING**

| PROBLEM  | ACTION   |
|--|--|
| A projector doesn't switch on                                    | <ul style="list-style-type: none"> <li>➤ Check the fuse on the power socket.</li> <li>➤ Check the light source.</li> </ul>                                 |
| The lamp is on but a projector doesn't respond to the controller | <ul style="list-style-type: none"> <li>➤ Make sure that the fixture's start address is right</li> <li>➤ Replace or repair the XLR signal cable.</li> </ul> |
| A projector functions intermittently                             | <ul style="list-style-type: none"> <li>➤ Make sure the fan is working well or fans and their shields are not blocked</li> </ul>                            |
| Beam appears dim, Low in brightness                              | <ul style="list-style-type: none"> <li>➤ Make sure the light source is within its lifespan</li> <li>➤ Remove dust or grease from the lenses.</li> </ul>    |
| The project image appears to have a halo                         | <ul style="list-style-type: none"> <li>➤ Carefully clean the lamp, optical lenses and other components.</li> </ul>   |
| Heavily Defective Beam   | <ul style="list-style-type: none"> <li>➤ Check if lens are in good condition(not cracked)</li> <li>➤ Clean dust or grease on the lens.</li> </ul>          |

**3.APPEARANCE**



**4.INSTALLATION**

**• Rigging**



Note: For safety reasons, please install the product away from walkways, seating areas, or areas within easy reach.

Before hanging the product, ensure the installation point can bear a weight at least 10 times that of the product. The product installation must include a secondary safety device, such as a safety cable. When hanging, removing, or servicing the product, do not stand underneath the installation point.

Ensure the product is installed at least 0.5 meters away from flammable materials.

Always remember to use a safety cable as a safety precaution to prevent accidents in case the clamps fail.

**Hanging Points:** For overhead hanging, installers must be experienced and have much knowLEDge including calculating load-bearing requirements, using appropriate installation materials, and periodically checking the safety condition of both the installation materials and the product. If you lack this knowLEDge, do not attempt to install it yourself. Incorrect operation may lead to serious consequences such as personal injury. Before powering on the product, ensure all required hanging and

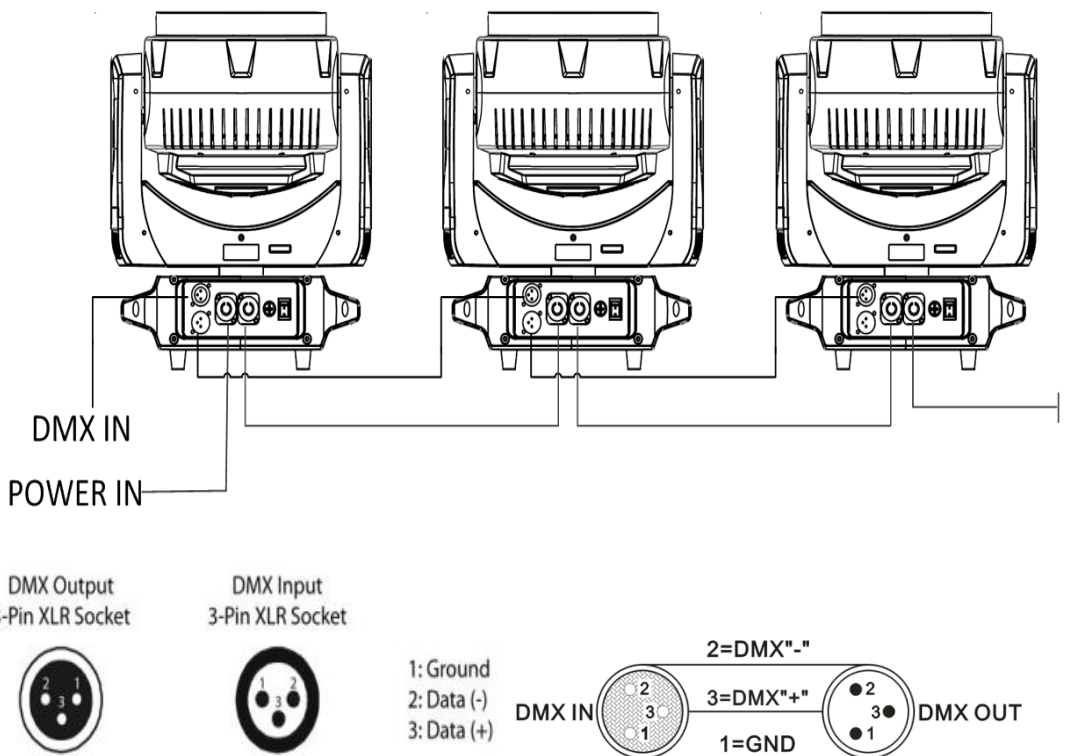
installation steps are completed.

**Clamp Mounting:** The product provides a specially designed mounting bracket assembly including Omega clamps and the hole for the safety cable (please refer to the illustration below). When mounting this fixture to truss, be sure to fix the Omega clamp with the bracket assembly and use M10 screw to fix the Omega clamps with the truss. For further safety, please run the safety cable through the hole in base of the product and truss.

Regardless of the hanging ways, always remember to use a safety cable. The product base has a dedicated safety cable hole (please refer to the image above), and always use the specifically provided safety cable hole. Never attach the safety cable to its arm.

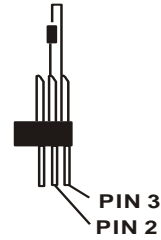
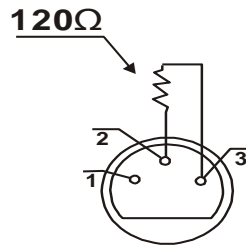
• **DMX512 Connection**

Connect the male end of the XLR cable to the XLR output of the controller, and its female end to the XLR input on the rear panel of the product. Multiple products can be connected in series. The XLR cable must be three-wire, shielded, and with XLR input and output connectors. Please refer to the image below.



DMX-512 connections require a DMX terminator (the connection of a DMX terminator ).

During installation, if XLR cable run is long or in electrically noisy environments (e.g., dance halls), it is recommended to use a DMX terminator (DMX terminator connection). This helps prevent corrupted digital control signal due to electrical noise. A DMX terminator consists of a simple XLR connector with a 120-ohm resistor connected between pins 2 and 3. Insert the terminator into the XLR output of the last product in the DMX chain. Please refer to the image below.



## 5. OPERATION MENU

| Menu          | Sub-Menu          | Secondary sub-menu |
|---------------|-------------------|--------------------|
| Address       | 001-512           |                    |
| Run mode      | DMX               | 21CH               |
|               |                   | 26CH               |
|               |                   | 35CH               |
|               |                   | 43CH               |
|               |                   | 78CH               |
|               |                   | 92CH               |
|               |                   | 97CH               |
|               | Auto Test         |                    |
|               | Manual Test       |                    |
|               | Auto              |                    |
| Channel Test  |                   |                    |
| Setting       | Pan Reverse       | YES/NO             |
|               | Tilt Reverse      | YES/NO             |
|               | Screen Reverse    | YES/NO             |
|               | Screen Lock       | YES/NO             |
|               | No Signal Hold    | YES/NO             |
|               | Pan Angle         | 540/360/180        |
|               | Tilt Angle        | 250/180/90         |
|               | Are-faction Time  | 0-255              |
|               | Language          | EN/CH              |
|               | Dimmer Speed      | Smooth             |
|               |                   | Fast               |
|               | Dimmer Curve      | Linear             |
|               |                   | SCurve             |
|               |                   | Square             |
|               |                   | I Square           |
|               | Reset Functions   | Pan/Tilt           |
| Zoom          |                   |                    |
| All           |                   |                    |
| Factory Reset | YES/NO            |                    |
| Sys Info      | Ver: V1.2         |                    |
|               | Running Mode: DMX |                    |
|               | Dmx Address: 001  |                    |

|                 |  |
|-----------------|--|
| Temperature: xx |  |
| Fixture Hours   |  |

## 6.DMX CHART

### 21 DMX channel mode

| DMX channel | Function                  | DMX value | Descriptions                                       |
|-------------|---------------------------|-----------|--|
| 1           | Red color dimmer          | 0-255     | Red color  |
| 2           | Red color dimmer fine     | 0-255     | Red color fine control                             |
| 3           | Green color dimmer        | 0-255     | Green color  |
| 4           | Green color dimmer fine   | 0-255     | Green color fine control                           |
| 5           | Blue color dimmer         | 0-255     | Blue color   |
| 6           | Blue color dimmer fine    | 0-255     | Blue color fine control                            |
| 7           | White color dimmer        | 0-255     | White color  |
| 8           | White color dimmer fine   | 0-255     | White color fine control                           |
| 9           | Color temperature         | 0-255     | From high to low                                   |
| 10          | Color macros              | 0-255     | Macros   |
| 11          | Strobe                    | 0-3       | LEDs off   |
|             |                           | 4-103     | Strobe from slow to fast                           |
|             |                           | 104-107   | LEDs on  |
|             |                           | 108-207   | Strobe in opposite direction                       |
|             |                           | 208-212   | LEDs on  |
|             |                           | 213-251   | Strobe at random                                   |
|             |                           | 252-255   | LEDs on  |
| 12          | Dimmer of all colors      | 0-255     | Dimmer   |
| 13          | Dimmer fine of all colors | 0-255     | Dimmer fine  |
| 14          | Pan                       | 0-255     | Pan (0-540 °)                                      |
| 15          | Pan fine                  | 0-255     | Pan 16bit control                                  |
| 16          | Tilt                      | 0-255     | Tilt (0-250 °)                                     |
| 17          | Tilt fine                 | 0-255     | Tilt 16 bit control                                |
| 18          | Function                  | 0-255     | NO   |
| 19          | Reset                     | 0-191     | Reserved   |
|             |                           | 192-255   | Reset by the fixture                               |
| 20          | Zoom                      | 0-255     | Linear zoom  |
| 21          | Lens rotation             | 0-127     | (0 ~60 °)  |
|             |                           | 128-190   | Continual anticlockwise rotation from fast to slow |
|             |                           | 191-192   | Stop   |
|             |                           | 193-255   | Continual clockwise rotation from slow to fast     |

### 26 DMX channel mode

| DMX channel | Function       | DMX value | Descriptions        |
|-------------|----------------|-----------|---------------------|
| 1           | Pan            | 0-255     | Pan (0-540 °)       |
| 2           | Pan fine       | 0-255     | Pan 16bit control   |
| 3           | Tilt           | 0-255     | Tilt (0-250 °)      |
| 4           | Tilt fine      | 0-255     | Tilt 16 bit control |
| 5           | Pan/Tilt speed | 0-255     | from fast to slow   |

|    |                               |         |  |
|----|-------------------------------|---------|--|
| 6  | Zoom                          | 0-255   | Linear zoom  |
| 7  | Zoom Lens rotation            | 0-127   | (0 ~60 °)  |
|    |                               | 128-189 | Continual anticlockwise rotation from fast to slow           |
|    |                               | 190-191 | Stop   |
|    |                               | 192-255 | Continual clockwise rotation from slow to fast               |
| 8  | Dimmer                        | 0-255   | 0-100 linear dimmer from dark to bright                      |
| 9  | Strobe                        | 0-3     | LEDs on  |
|    |                               | 4-200   | Synchronized strobe from fast to slow                        |
|    |                               | 201-255 | Random strobe from slow to fast                              |
| 10 | Red color dimmer              | 0-255   | 0-100% Red color from dark to bright                         |
| 11 | Green color dimmer            | 0-255   | 0-100% Green color from dark to bright                       |
| 12 | Blue color dimmer             | 0-255   | 0-100% Blue color from dark to bright                        |
| 13 | White color dimmer            | 0-255   | 0-100% White color from dark to bright                       |
| 14 | Color temperature             | 0-255   | Linear color temperature control                             |
| 15 | Marcos                        | 0-255   | Color macros   |
| 16 | Static effect                 | 0-9     | No function  |
|    |                               | 10-129  | An effect for every 5 DMX values (35 effects in total)       |
|    |                               | 130-194 | the 36th static effect                                       |
|    |                               | 195-255 | The 37th static effect                                       |
| 17 | Dynamic effect                | 0-4     | No function  |
|    |                               | 5-16    | The 1st dynamic effect                                       |
|    |                               | 17-255  | A dynamic effect for every 3 DMX value (80 effects in total) |
| 18 | Dynamic effect speed          | 0-127   | Clockwise rotation from fast to slow                         |
|    |                               | 128-255 | Anti-Clockwise rotate from slow to fast                      |
| 19 | Background red color dimmer   | 0-255   | Linear dimmer from dark to bright                            |
| 20 | Background green color dimmer | 0-255   | Linear dimmer from dark to bright                            |
| 21 | Background blue color dimmer  | 0-255   | Linear dimmer from dark to bright                            |
| 22 | Background white color dimmer | 0-255   | Linear dimmer from dark to bright                            |
| 23 | LED ring strobe               | 0-3     | LEDs Off   |
|    |                               | 4-250   | Synchronized strobe  |
|    |                               | 251-255 | LEDs on  |
| 24 | LED ring macro                | 0-1     | No function  |
|    |                               | 2-51    | A color for every 2 DMX values                               |
|    |                               | 52-54   | Dynamic effect 1   |
|    |                               | 55-250  | A dynamic effect for every 4 DMX values                      |
|    |                               | 251-255 | dynamic effect 51  |
| 25 | LED ring macro speed          | 0-255   | from slow to fast  |
| 26 | Reset                         | 0-191   | No function  |
|    |                               | 192-255 | Reset for 5 seconds  |

### 35 DMX channel mode

| DMX channel | Function                | DMX value | Descriptions             |
|-------------|-------------------------|-----------|--------------------------|
| 1           | Red color dimmer        | 0-255     | Red color                |
| 2           | Red color dimmer fine   | 0-255     | Red color fine control   |
| 3           | Green color dimmer      | 0-255     | Green color              |
| 4           | Green color dimmer fine | 0-255     | Green color fine control |
| 5           | Blue color dimmer       | 0-255     | Blue color               |
| 6           | Blue color dimmer fine  | 0-255     | Blue color fine control  |

|         |                           |         |  |
|---------|---------------------------|---------|--|
| 7       | White color dimmer        | 0-255   | White color  |
| 8       | White color dimmer fine   | 0-255   | White color fine control                           |
| 9       | Color temperature         | 0-255   | From high to low                                   |
| 10      | Color macros              | 0-255   | Macros   |
| 11      | Strobe                    | 0-3     | LEDs off   |
|         |                           | 4-103   | Strobe from slow to fast                           |
|         |                           | 104-107 | LEDs on  |
|         |                           | 108-207 | Strobe in opposite direction                       |
|         |                           | 208-212 | LEDs on  |
|         |                           | 213-251 | Strobe at random                                   |
| 252-255 | LEDs on                   |         |  |
| 12      | Dimmer of all colors      | 0-255   | Dimmer   |
| 13      | Dimmer fine of all colors | 0-255   | Dimmer fine  |
| 14      | Pan                       | 0-255   | Pan (0-540 °)                                      |
| 15      | Pan fine                  | 0-255   | Pan 16bit control                                  |
| 16      | Tilt                      | 0-255   | Tilt (0-250 °)                                     |
| 17      | Tilt fine                 | 0-255   | Tilt 16 bit control                                |
| 18      | Function                  | 0-255   | Reserved   |
| 19      | Reset                     | 0-191   | No   |
|         |                           | 192-255 | Reset by the fixture                               |
| 20      | Zoom                      | 0-255   | Linear zoom  |
| 21      | Lens rotation             | 0-127   | (0 ~60 °)  |
|         |                           | 128-190 | Continual anticlockwise rotation from fast to slow |
|         |                           | 191-192 | Stop   |
|         |                           | 193-255 | Continual clockwise rotation from slow to fast     |
| 22      | Pattern selection         | 0-7     | No   |
|         |                           | 8-14    | Static effect                                      |
|         |                           | 15-87   | Dynamic effect                                     |
|         |                           | 88-255  | NO   |
| 23      | Pattern speed             | 0-158   | Pattern anticlockwise rotation from fast to slow   |
|         |                           | 159-255 | Dynamic effect from slow to fast                   |
| 24      | Pattern fade              | 0-255   | Pattern fade                                       |
| 25      | Pattern in Red color      | 0-255   | Pattern in Red color                               |
| 26      | Pattern in Green color    | 0-255   | Pattern in Green color                             |
| 27      | Pattern in Blue color     | 0-255   | Pattern in Blue color                              |
| 28      | Pattern in White color    | 0-255   | Pattern in White color                             |
| 29      | Pattern dimmer            | 0-255   | 0-100% pattern dimmer                              |
| 30      | Background dimmer         | 0-255   | 0-100% background dimmer                           |
| 31      | Pattern changes           | 0-255   | Pattern change control                             |
| 32      | Pattern move              | 0-255   | Pattern parallel move                              |
| 33      | Foreground strobe         | 0-255   | Strobe control                                     |
| 34      | Background strobe         | 0-255   | Strobe control                                     |
| 35      | Background selection      | 0-8     | No   |
|         |                           | 9-15    | A background option for every DMX value            |
|         |                           | 16-255  | No   |

### 43 DMX channel mode

| DMX channel | Function                  | DMX value | Descriptions                                       |
|-------------|---------------------------|-----------|--|
| 1           | Red color dimmer          | 0-255     | Red color  |
| 2           | Red color dimmer fine     | 0-255     | Red color fine control                             |
| 3           | Green color dimmer        | 0-255     | Green color  |
| 4           | Green color dimmer fine   | 0-255     | Green color fine control                           |
| 5           | Blue color dimmer         | 0-255     | Blue color   |
| 6           | Blue color dimmer fine    | 0-255     | Blue color fine control                            |
| 7           | White color dimmer        | 0-255     | White color  |
| 8           | White color dimmer fine   | 0-255     | White color fine control                           |
| 9           | Color temperature         | 0-255     | From high to low                                   |
| 10          | Color macros              | 0-255     | Macros   |
| 11          | Strobe                    | 0-3       | LEDs off   |
|             |                           | 4-103     | Strobe from slow to fast                           |
|             |                           | 104-107   | LEDs on  |
|             |                           | 108-207   | Strobe in opposite direction                       |
|             |                           | 208-212   | LEDs on  |
|             |                           | 213-251   | Strobe at random                                   |
| 12          | Dimmer of all colors      | 0-255     | Dimmer   |
| 13          | Dimmer fine of all colors | 0-255     | Dimmer fine  |
| 14          | Pan                       | 0-255     | Pan (0-540 °)                                      |
| 15          | Pan fine                  | 0-255     | Pan 16bit control                                  |
| 16          | Tilt                      | 0-255     | Tilt (0-250 °)                                     |
| 17          | Tilt fine                 | 0-255     | Tilt 16 bit control                                |
| 18          | Function                  | 0-255     | Reserved   |
| 19          | Reset                     | 0-191     | No   |
|             |                           | 192-255   | Reset by the fixture                               |
| 20          | Zoom                      | 0-255     | Linear zoom  |
| 21          | Lens rotation             | 0-127     | (0 ~60 °)  |
|             |                           | 128-190   | Continual anticlockwise rotation from fast to slow |
|             |                           | 191-192   | Stop   |
|             |                           | 193-255   | Continual clockwise rotation from slow to fast     |
| 22          | Pattern selection         | 0-7       | No   |
|             |                           | 8-14      | Static effect                                      |
|             |                           | 15-87     | Dynamic effect                                     |
|             |                           | 88-255    | NO   |
| 23          | Pattern speed             | 0-158     | Pattern anticlockwise rotation from fast to slow   |
|             |                           | 159-255   | Dynamic effect from slow to fast                   |
| 24          | Pattern fade              | 0-255     | Pattern fade                                       |
| 25          | Pattern in Red color      | 0-255     | Pattern in Red color                               |
| 26          | Pattern in Green color    | 0-255     | Pattern in Green color                             |
| 27          | Pattern in Blue color     | 0-255     | Pattern in Blue color                              |
| 28          | Pattern in White color    | 0-255     | Pattern in White color                             |
| 29          | Pattern dimmer            | 0-255     | 0-100% pattern dimmer                              |
| 30          | Background dimmer         | 0-255     | 0-100% background dimmer                           |
| 31          | Pattern changes           | 0-255     | Pattern change control                             |

|    |                                  |         |   |
|----|----------------------------------|---------|---|
| 32 | Pattern move                     | 0-255   | Pattern parallel move                   |
| 33 | Foreground strobe                | 0-255   | Strobe control                          |
| 34 | Background strobe                | 0-255   | Strobe control                          |
| 35 | Background selection             | 0-8     | No                                      |
|    |                                  | 9-15    | A background option for every DMX value |
|    |                                  | 16-255  | No                                      |
| 36 | Frequency                        | 0-255   | Selectable patterns and frequency modes |
| 37 | Dimmer of LED rings              | 0-255   | Linear dimmer                           |
| 38 | Strobe of LED rings              | 0-3     | On                                      |
|    |                                  | 4-250   | Strobe from slow to fast                |
|    |                                  | 251-255 | On                                      |
| 39 | Dimmer LED rings in red color    | 0-255   | Linear dimmer                           |
| 40 | Dimmer LED rings in green colors | 0-255   | Linear dimmer                           |
| 41 | Dimmer LED rings in blue colors  | 0-255   | Linear dimmer                           |
| 42 | Macros of LED rings              | 0-1     | No                                      |
|    |                                  | 2-51    | A color for every 2 DMX values          |
|    |                                  | 52-54   | 1st dynamic effect                      |
|    |                                  | 55-250  | A dynamic effect every 4 DMX values     |
|    |                                  | 251-255 | The 51st dynamic effect                 |
| 43 | Speed of the macro of LED rings  | 0-255   | From slow to fast                       |

### 78 DMX channel mode

| DMX channel | Function                  | DMX value | Descriptions                 |
|-------------|---------------------------|-----------|------------------------------|
| 1           | Red color dimmer          | 0-255     | Red color                    |
| 2           | Red color dimmer fine     | 0-255     | Red color fine control       |
| 3           | Green color dimmer        | 0-255     | Green color                  |
| 4           | Green color dimmer fine   | 0-255     | Green color fine control     |
| 5           | Blue color dimmer         | 0-255     | Blue color                   |
| 6           | Blue color dimmer fine    | 0-255     | Blue color fine control      |
| 7           | White color dimmer        | 0-255     | White color                  |
| 8           | White color dimmer fine   | 0-255     | White color fine control     |
| 9           | Color temperature         | 0-255     | From high to low             |
| 10          | Color macros              | 0-255     | Macros                       |
| 11          | Strobe                    | 0-3       | LEDs off                     |
|             |                           | 4-103     | Strobe from slow to fast     |
|             |                           | 104-107   | LEDs on                      |
|             |                           | 108-207   | Strobe in opposite direction |
|             |                           | 208-212   | LEDs on                      |
|             |                           | 213-251   | Strobe at random             |
| 252-255     | LEDs on                   |           |                              |
| 12          | Dimmer of all colors      | 0-255     | Dimmer                       |
| 13          | Dimmer fine of all colors | 0-255     | Dimmer fine                  |
| 14          | Pan                       | 0-255     | Pan (0-540 °)                |
| 15          | Pan fine                  | 0-255     | Pan 16bit control            |

|     |                         |         |  |
|-----|-------------------------|---------|--|
| 16  | Tilt                    | 0-255   | Tilt (0-250 °)                                     |
| 17  | Tilt fine               | 0-255   | Tilt 16 bit control                                |
| 18  | Function                | 0-255   | Reserved   |
| 19  | Reset                   | 0-191   | No   |
|     |                         | 192-255 | Reset by the fixture                               |
| 20  | Zoom                    | 0-255   | Linear zoom  |
| 21  | Lens rotation           | 0-127   | (0 ~60 °)  |
|     |                         | 128-190 | Continual anticlockwise rotation from fast to slow |
|     |                         | 191-192 | Stop   |
|     |                         | 193-255 | Continual clockwise rotation from slow to fast     |
| 22  | Dimmer of red color1    | 0-255   | Dimmer   |
| 23  | Dimmer of green color1  | 0-255   | Dimmer   |
| 24  | Dimmer of blue color1   | 0-255   | Dimmer   |
| ... | Dimmer of red color*    | 0-255   | Dimmer   |
| ... | Dimmer of green color*  | 0-255   | Dimmer   |
| ... | Dimmer of blue color*   | 0-255   | Dimmer   |
| 76  | Dimmer of red color19   | 0-255   | Dimmer   |
| 77  | Dimmer of green color19 | 0-255   | Dimmer   |
| 78  | Dimmer of blue color19  | 0-255   | Dimmer   |

## 92 DMX channel mode

| DMX channel | Function                  | DMX value | Descriptions                 |
|-------------|---------------------------|-----------|------------------------------|
| 1           | Red color dimmer          | 0-255     | Red color                    |
| 2           | Red color dimmer fine     | 0-255     | Red color fine control       |
| 3           | Green color dimmer        | 0-255     | Green color                  |
| 4           | Green color dimmer fine   | 0-255     | Green color fine control     |
| 5           | Blue color dimmer         | 0-255     | Blue color                   |
| 6           | Blue color dimmer fine    | 0-255     | Blue color fine control      |
| 7           | White color dimmer        | 0-255     | White color                  |
| 8           | White color dimmer fine   | 0-255     | White color fine control     |
| 9           | Color temperature         | 0-255     | From high to low             |
| 10          | Color macros              | 0-255     | Macros                       |
| 11          | Strobe                    | 0-3       | LEDs off                     |
|             |                           | 4-103     | Strobe from slow to fast     |
|             |                           | 104-107   | LEDs on                      |
|             |                           | 108-207   | Strobe in opposite direction |
|             |                           | 208-212   | LEDs on                      |
|             |                           | 213-251   | Strobe at random             |
|             |                           | 252-255   | LEDs on                      |
| 12          | Dimmer of all colors      | 0-255     | Dimmer                       |
| 13          | Dimmer fine of all colors | 0-255     | Dimmer fine                  |
| 14          | Pan                       | 0-255     | Pan (0-540 °)                |
| 15          | Pan fine                  | 0-255     | Pan 16bit control            |
| 16          | Tilt                      | 0-255     | Tilt (0-250 °)               |
| 17          | Tilt fine                 | 0-255     | Tilt 16 bit control          |
| 18          | Function                  | 0-255     | Reserved                     |
| 19          | Reset                     | 0-191     | No                           |
|             |                           | 192-255   | Reset by the fixture         |

|     |                         |         |  |
|-----|-------------------------|---------|--|
| 20  | Zoom                    | 0-255   | Linear zoom  |
| 21  | Lens rotation           | 0-127   | (0 ~60 °)  |
|     |                         | 128-190 | Continual anticlockwise rotation from fast to slow |
|     |                         | 191-192 | Stop   |
|     |                         | 193-255 | Continual clockwise rotation from slow to fast     |
| 22  | Pattern selection       | 0-7     | No   |
|     |                         | 8-14    | Static effect                                      |
|     |                         | 15-87   | Dynamic effect                                     |
|     |                         | 88-255  | NO   |
| 23  | Pattern speed           | 0-158   | Pattern anticlockwise rotation from fast to slow   |
|     |                         | 159-255 | Dynamic effect from slow to fast                   |
| 24  | Pattern fade            | 0-255   | Pattern fade                                       |
| 25  | Pattern in Red color    | 0-255   | Pattern in Red color                               |
| 26  | Pattern in Green color  | 0-255   | Pattern in Green color                             |
| 27  | Pattern in Blue color   | 0-255   | Pattern in Blue color                              |
| 28  | Pattern in White color  | 0-255   | Pattern in White color                             |
| 29  | Pattern dimmer          | 0-255   | 0-100% pattern dimmer                              |
| 30  | Background dimmer       | 0-255   | 0-100% background dimmer                           |
| 31  | Pattern changes         | 0-255   | Pattern change control                             |
| 32  | Pattern move            | 0-255   | Pattern parallel move                              |
| 33  | Foreground strobe       | 0-255   | Strobe control                                     |
| 34  | Background strobe       | 0-255   | Strobe control                                     |
| 35  | Background selection    | 0-8     | No   |
|     |                         | 9-15    | A background option for every DMX value            |
|     |                         | 16-255  | No   |
| 36  | Dimmer of red color1    | 0-255   | Dimmer   |
| 37  | Dimmer of green color1  | 0-255   | Dimmer   |
| 38  | Dimmer of blue color1   | 0-255   | Dimmer   |
| 39  | Dimmer of red color*    | 0-255   | Dimmer   |
| 40  | Dimmer of green color*  | 0-255   | Dimmer   |
| 41  | Dimmer of blue color*   | 0-255   | Dimmer   |
| ... | Dimmer of red color19   | 0-255   | Dimmer   |
| ... | Dimmer of green color19 | 0-255   | Dimmer   |
| ... | Dimmer of blue color19  | 0-255   | Dimmer   |
| 90  | Dimmer of red color1    | 0-255   | Dimmer   |
| 91  | Dimmer of green color1  | 0-255   | Dimmer   |
| 92  | Dimmer of blue color1   | 0-255   | Dimmer   |

### 97 DMX channel mode

| DMX channel | Function                | DMX value | Descriptions             |
|-------------|-------------------------|-----------|--------------------------|
| 1           | Red color dimmer        | 0-255     | Red color                |
| 2           | Red color dimmer fine   | 0-255     | Red color fine control   |
| 3           | Green color dimmer      | 0-255     | Green color              |
| 4           | Green color dimmer fine | 0-255     | Green color fine control |
| 5           | Blue color dimmer       | 0-255     | Blue color               |
| 6           | Blue color dimmer fine  | 0-255     | Blue color fine control  |
| 7           | White color dimmer      | 0-255     | White color              |
| 8           | White color dimmer fine | 0-255     | White color fine control |
| 9           | Color temperature       | 0-255     | From high to low         |

|         |                           |         |  |
|---------|---------------------------|---------|--|
| 10      | Color macros              | 0-255   | Macros   |
| 11      | Strobe                    | 0-3     | LEDs off   |
|         |                           | 4-103   | Strobe from slow to fast                           |
|         |                           | 104-107 | LEDs on  |
|         |                           | 108-207 | Strobe in opposite direction                       |
|         |                           | 208-212 | LEDs on  |
|         |                           | 213-251 | Strobe at random                                   |
| 252-255 | LEDs on                   |         |  |
| 12      | Dimmer of all colors      | 0-255   | Dimmer   |
| 13      | Dimmer fine of all colors | 0-255   | Dimmer fine  |
| 14      | Pan                       | 0-255   | Pan (0-540 °)                                      |
| 15      | Pan fine                  | 0-255   | Pan 16bit control                                  |
| 16      | Tilt                      | 0-255   | Tilt (0-250 °)                                     |
| 17      | Tilt fine                 | 0-255   | Tilt 16 bit control                                |
| 18      | Function                  | 0-255   | Reserved   |
| 19      | Reset                     | 0-191   | No   |
|         |                           | 192-255 | Reset by the fixture                               |
| 20      | Zoom                      | 0-255   | Linear zoom  |
| 21      | otation                   | 0-127   | (0 ~60 °)  |
|         |                           | 128-190 | Continual anticlockwise rotation from fast to slow |
|         |                           | 191-192 | Stop   |
|         |                           | 193-255 | Continual clockwise rotation from slow to fast     |
| 22      | Dimmer of red color1      | 0-255   | Dimmer   |
| 23      | Dimmer of green color1    | 0-255   | Dimmer   |
| 24      | Dimmer of blue color1     | 0-255   | Dimmer   |
| 25      | Dimmer of white color 1   | 0-255   | Dimmer   |
| 26      | Dimmer of red color2      | 0-255   | Dimmer   |
| 27      | Dimmer of green color2    | 0-255   | Dimmer   |
| 28      | Dimmer of blue color2     | 0-255   | Dimmer   |
| 29      | Dimmer of white color 2   | 0-255   | Dimmer   |
| ...     | Dimmer of red color*      | 0-255   | Dimmer   |
| ...     | Dimmer of green color*    | 0-255   | Dimmer   |
| ...     | Dimmer of blue color1 *   | 0-255   | Dimmer   |
| ...     | Dimmer of white color*    | 0-255   | Dimmer   |
| 94      | Dimmer of red color19     | 0-255   | Dimmer   |
| 95      | Dimmer of green color19   | 0-255   | Dimmer   |
| 96      | Dimmer of blue color19    | 0-255   | Dimmer   |
| 97      | Dimmer of white color 19  | 0-255   | Dimmer   |

## 7. TECHNICAL DATA

### Electric parameters

Voltage : AC100V-240V/50-60Hz

Power : 1350W

### Light source

Qty.: 19×60W RGBW LED high power imported LEDs

Rated life : 50000h

### Control

DMX512,RDM,Master /Slave mode

### DMX channel modes

7 DMX channel modes 21CH/26CH/35CH/43CH/78CH/92CH/97CH

### Pan and Tilt

Pan: 540 °, Tilt: 216 °

### Optics

Highly precise and integrated PMMA lens and highly light transmitting quartz mixing rods

### Beam angle

7 °~45 °, linear

### Beam effects

Stunning beam effect at small beam angles

### Wash effects

Even wash effect at medium and big beam angles

### Colors

Even RGBW color mixing without flickering ,fast rainbow effects

### Color temperature

2500~10000K

### Macros

Macros for static and dynamic effects

### Strobe

1-25Hz, electronic strobe and random strobes

### Dimmer

Electronic dimmer, 4 dimmer modes

### Zoom

Linear motorized zoom

### Lens rotation

Continual lens rotation with kaleidoscope and canton tower effects

### LED ring

Pixel control, dynamic marquee effects

### Screen

1.77 inch OLED screen with Chinese/English menus ,isolated signal system to avoid interference by external light and electronics and waterproof touch keys (password 1111 to unlock the screen)

**Smart control**

Fixture's and light source's hours and its temperatures can be readable via menus

**Ingress protection**

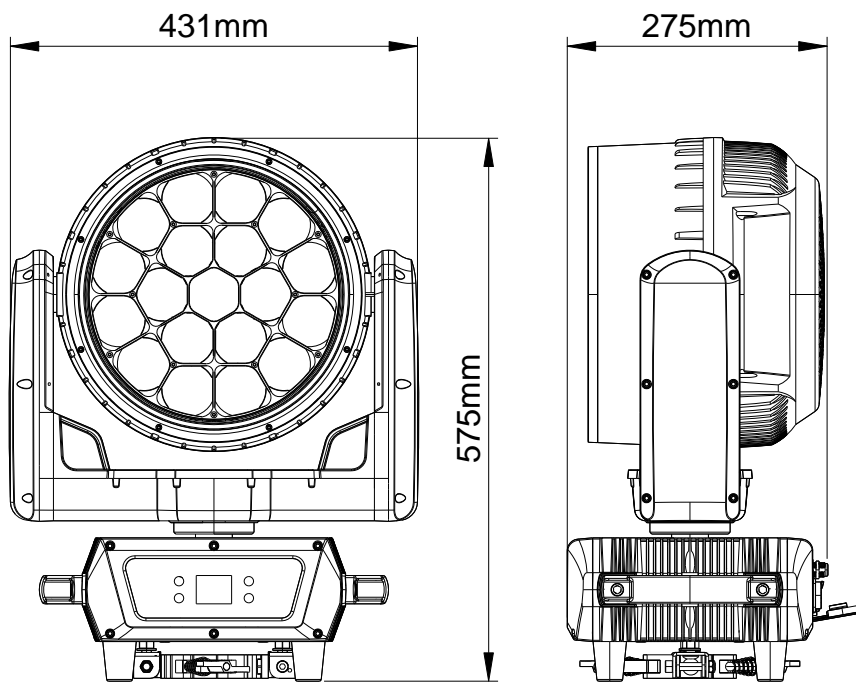
IP65, water, dust and dirt resistant for yearly all-weather applications

**Net weight**

23.5KG

**Sizes**

43.4\*26\*57.7CM



**Carton( 1 in 1)**

61\*53\*45CM

**In flight case(2 in 1)**

87\*46\*80CM

PR LIGHTING LTD.

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