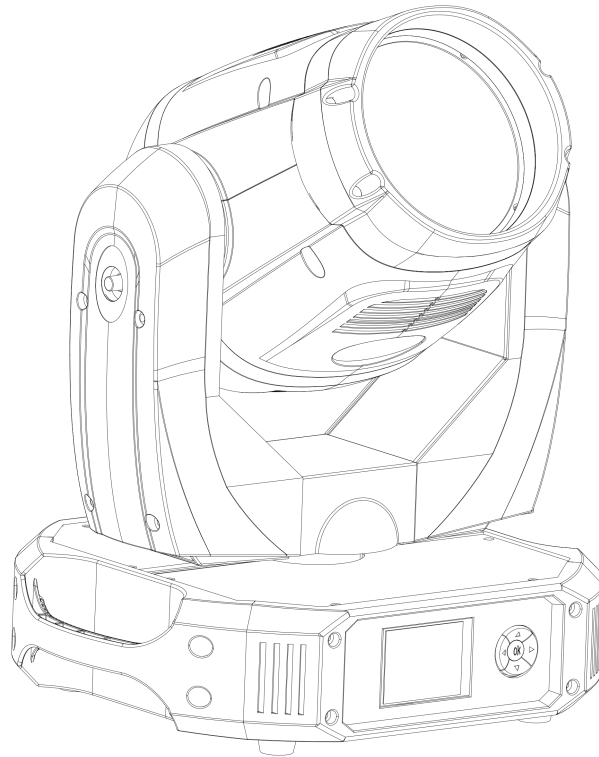




## **XR380 (BEAM)**

**PR-2345**

This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully 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          |
|---------------|----------|------|-----------------|
| G clamps      | 2        | Pcs  |                 |
| XLR connector | 1        | Pcs  | Mate and female |
| Safety cord   | 2        | Pcs  |                 |
| User manual   | 1        | Pcs  |                 |
| Ω clamps      | 2        | Pcs  | Optional        |

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.

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |
| Warning                                                                           | User Manual                                                                       | Electrical shock                                                                  | Goggles                                                                           | Protective Gloves                                                                  | Flames                                                                              | High Temperature                                                                    |



- 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.



- The projector is for indoor use only, IP20.
- Use only in dry locations. Keep this unit away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other liquids.
- 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.
- The projector is not for a user for any replacements and the user shouldn't open the projector for repair and maintenance.



- 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 lamp, lens and screen protective cover of the a lighting fixture have obvious damage, i.e., to the extent that it hurts the performance like cracking or deformation. Please stop use it and replace them with the original parts, otherwise its performance will be compromised.
- For the location of a lighting fixture, 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 covers(housing)are off .
- Keep the lamp clean and do not touch it with bare hands.
- While operating it, wear protective items.



- Any electrical connection must be carried out by a qualified person .
- Before installation, please confirm the voltage supplied matches what is required for the 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 the projector is not used or under cleaning,, please hold the 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, the projector should not be under rains or in humidity.



- Do not switch on and off the projector constantly in very short intervals, otherwise the 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 the projector is disconnected from power mains.



- After stable operation under normal ambient temperature, the temperature of the external surface of the housing is 120°C after the stable running.
- While the lamp is stricken for the first time, there will be smoke and strange smell. It's normal and does not mean the projector has some defects.



- Do not touch the metallic housing of a projector to avoid being burned.
- Do not mount the projector directly on inflammable surface.
- Do not project the beam straightly on combustible items and the minimum distance between the projector and illuminated items is 18m.
- A projector should be installed with good ventilation and the minimum distance between the projector and walls is 50cm. At the same time, please ensure the fans and air inlets and outlets are workable.



- 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

If a projector can't start. Please check if the fuse is blown up. If it does, replace it with a new fuse with same ratings. And the projector has over-temperature protective device. If the temperature is too high, the protective device will be triggered to shut the projector off. When it happens, please check if the fans run normally or fan shield is blocked by dust. After the issue is solved, restart the projector.

The accumulation of oil, smoke and dust on the lens will compromise the light output. Cleaning a projector is very necessary to ensure a reliable use of it. Cooling fans need to be cleaned every 15 days. Internal lens, reflector and hot mirror 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 20 days and internal optical systems every 30/60 days. Keep lens clean and do not touch optical parts with bare hands.



- Before any maintenance and cleaning, please ensure the projector is off the power
- Only qualified person is allowed to do maintenance
- During maintenance and before maintenance, the projector must be off power.



- 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 or hot mirror.

### •LUBRICATION

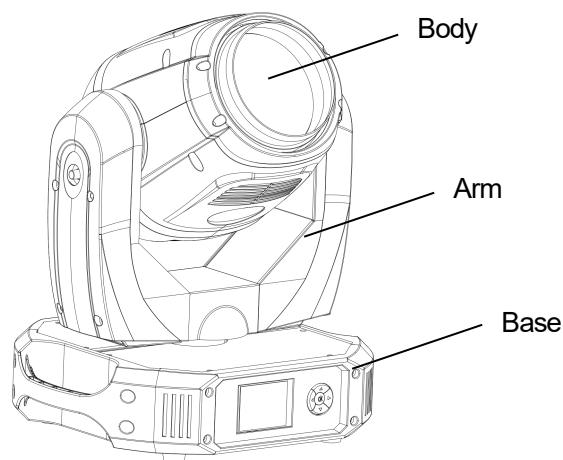
To ensure smooth movement of gobos and zoom and focus lens, it's advised rotators' bearings and 2 sliding bars for zoom and

focus lens be lubricated every 2 months. High quality and high temperature lubricant/grease is advised..

## ●TROUBLESHOOTING

| PROBLEM                                                            | ACTION                                                                                                                                                     |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The projector doesn't switch on                                    | <ul style="list-style-type: none"> <li>➤ Check the fuse on the power socket.</li> <li>➤ Check the lamp.</li> </ul>                                         |
| The lamp is on but the 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> |
| The projector functions intermittently                             | ➤ Make sure the fan is working well or fans and their shields are not blocked                                                                              |
| Beam appears dim, Low in brightness                                | <ul style="list-style-type: none"> <li>➤ Make sure the lamp is within its lifespan</li> <li>➤ Remove dust or grease from the lenses.</li> </ul>            |
| The project image appears to have a halo                           | ➤ Carefully clean the lamp, optical lenses and other components.                                                                                           |
| 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>          |

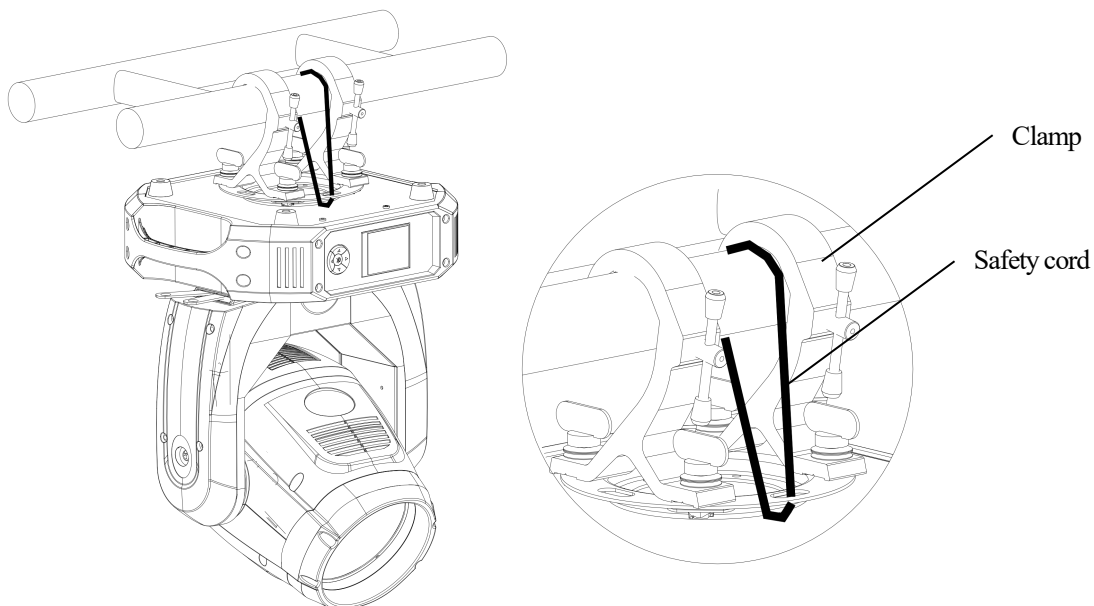
## 3. APPEARANCE



## 4. INSTALLATION

### ●RIGGING

Before moving a projector, Please lock Pan and Tilt. Before its operation, please unlock them. It's forbidden to run a projector with power while it is locked



**Warning: Please run the safety cord through the safety cord holes for safety.**

Take 2 clamps and 1 safety cords out from the package and mount 2 clamps on the underside of fixture with 4 retainers attached to each clamp. Hang the fixture on the structure and fasten the screws attached to each clamp. (See the **WARNING** on the underside of the base as shown above) Always ensure that the projector is firmly anchored to avoid vibration and slipping whilst functioning. Always ensure that the structure that you are going to mount the projector is secure and is strong enough to support the weight of the fixture.



**WARNING:**

- The projector **MUST** be lifted or carried by the HANDLES instead of clamps.
- For safety the safety cord should afford 10 times the Projector's weight.

● **POWER CONNECTION**

Connect the power cord as follows:

L (live) =brown

E (earth) =yellow/green

N (neutral) =blue

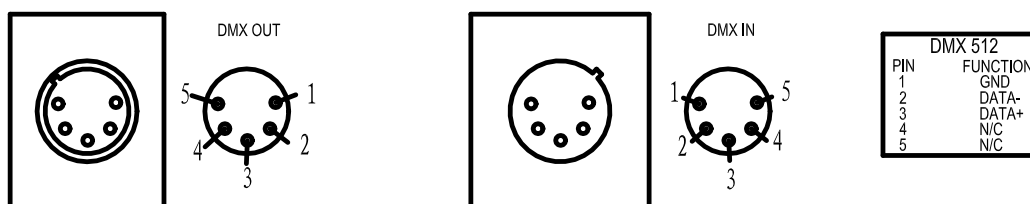
Before power connection, please ensure the power supplied must match what the nameplate says. It is recommended that each projector be connected with power separately so that they may be individually switched on and off.

**Note:** If projectors are connected in series, please connect POWERIN port of the 1<sup>st</sup> projector with the Power Mains, then connect its POWER OUT with POWER IN of the 2<sup>nd</sup> projector, and so on till all fixtures are connected. If the voltage supplied is 200V-240V, the maximum projectors connected is 8pcs, if it is 100V-120V, the maximum is 4pcs. The diameter of the cores of the wires for the Power in/out cables must be equal or bigger than 2.5mm<sup>2</sup>.



- The earth wire(yellow/green) must be connected to the ground. And electrical connection must be in accordance with the standards concerned.
- If any questions about the electrical installation, do not continue but consult a qualified electrician.

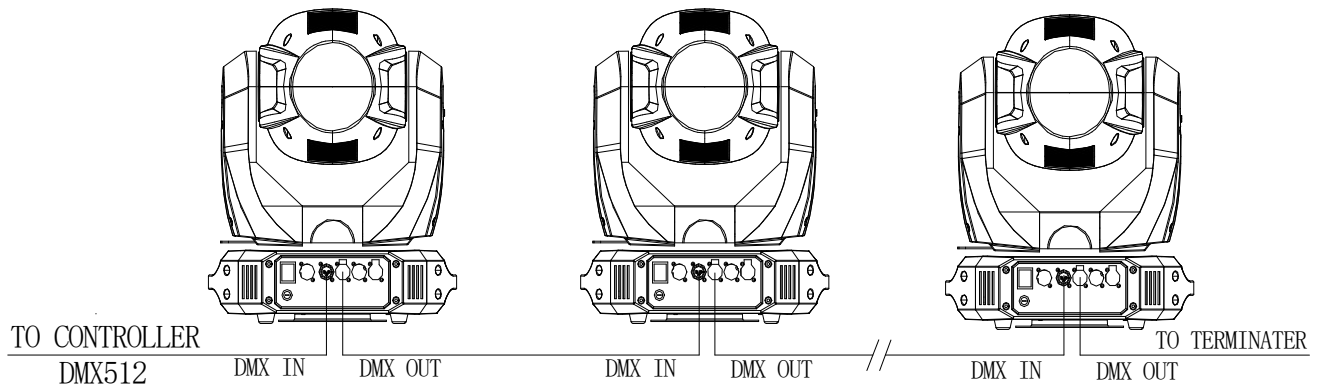
● **DMX CONTROL CONNECTION**



Connection between controller and projector and between one projector and another must be made with a twin-screened cable, with each wire having at least a 0.5mm in diameter. Connection to and from the projector is via cannon 5 pin (which are included with the projector) or 5 pin XLR plugs and sockets. The XLR's are connected as shown in the figure above.

Note: care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. XLR plugs and sockets mustn't be connected in any way other than mentioned in the above figure. The projector accepts digital control signals in protocol DMX512 (1990).

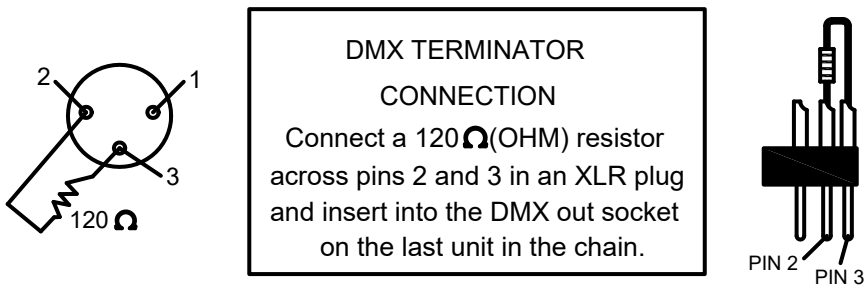
Connect the controller's DMX output to the first fixture's DMX input, and connect the first fixture's DMX output to the second fixture's DMX input and connect the rest fixtures in the same way. Eventually connect the last fixture's DMX output to a DMX terminator as shown in the figure below.



### ●DMX TERMINATOR

In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

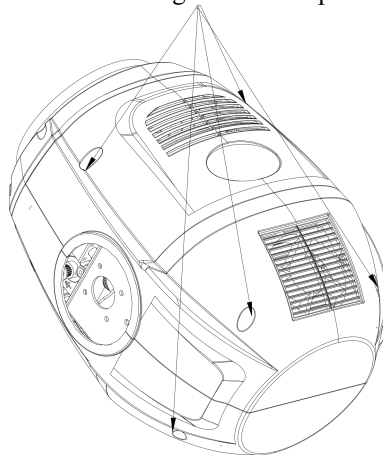
The DMX terminator is simply an XLR connector with a  $120\Omega$  (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.



### ● ALIGNMENT/INSTALLATION/REPLACEMENT OF A LAMP

Lock Tilt before lamp adjustment/installation/replacement. As figure1 below, loosen 4 screws of lamp chamber cover.

figure1 :loosen 8 pcs of fast-fit screws



Removal/installation of a lamp as the figure2 below:

Figure2: lamp adjustment

1. Use a cross screw driver to remove screws for fans on both sides of the amp and open the fans.
2. use a cross screw driver to loosen a tightening screw on its one side.
3. use a cross screw driver to adjust 2 screws on its both sides to adjust a lamp's position.

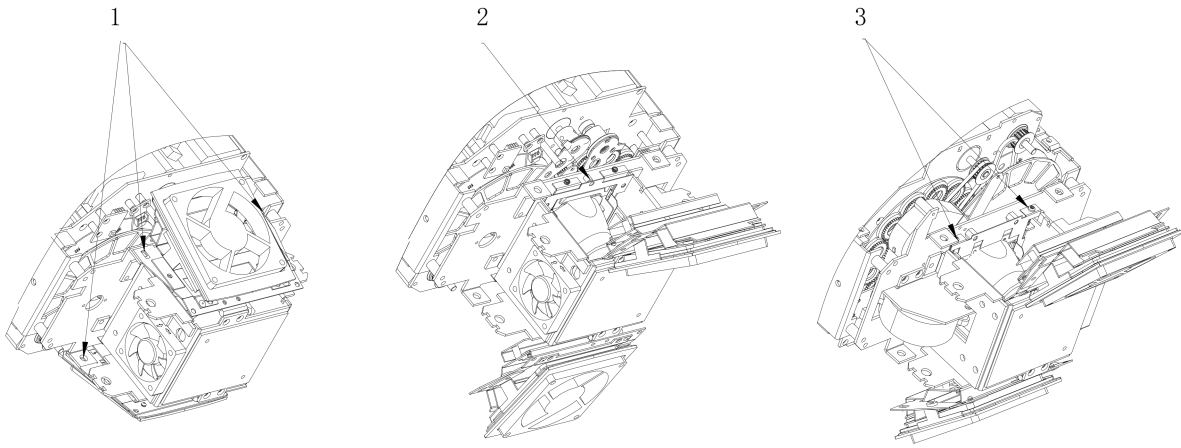
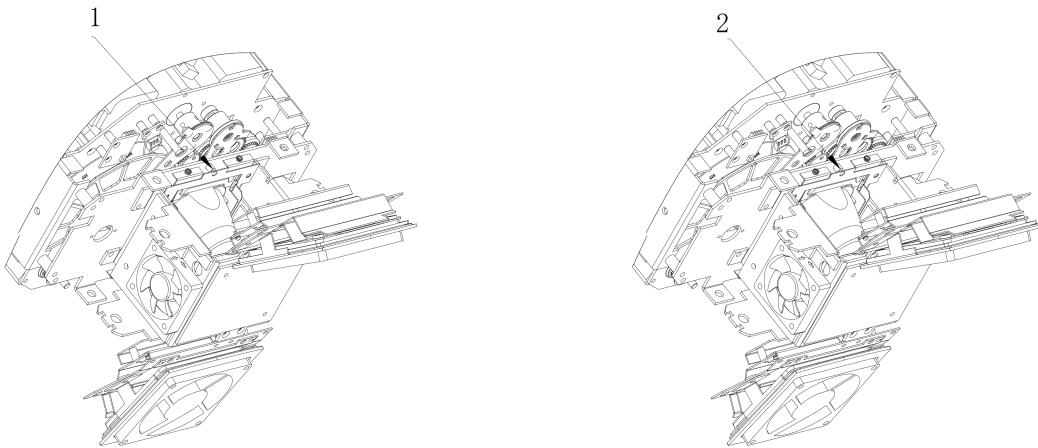


Figure3: lamp removal

1. Loosen the tightening screw on one side of the lamp.
2. Unplug both lamp wires and push the lamp upward to remove it obliquely.

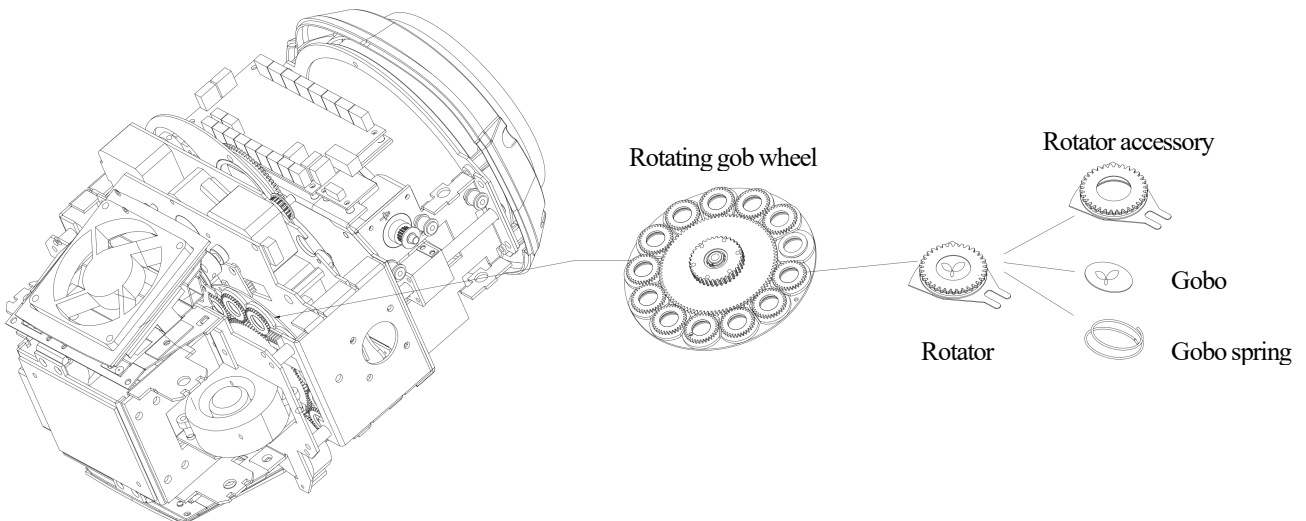


Before the lamp's removal, unplug its both wires. After a new lamp installed, plug its both wires.



- Don't touch the internal surface of the reflector and the burner of the lamp with bare hands so as not to impair the beam output. While lamp's installation, do not damage the metal wire around the burner.
- Please read "Instructions " enclosed with the lamp
- Do not operate the projector while adjusting the lamp

## ● REPLACEMENT OF GOBOS





Replacement of a rotating gobo wheel: open the cove and select a rotator to be replaced. Push the rotator towards the front lens till it slides from the wheel and pull it out gently; After a replacement of a gobo, place the rotator in its original place and ensure it is in right place and not loose.

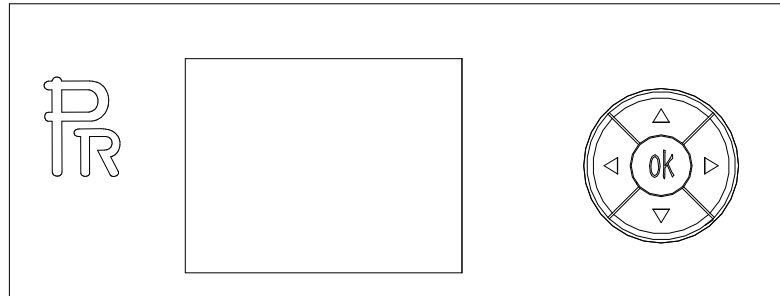


### **DANGER!**

**Before replacement of gobos, the projector must be off the power.**

## **5. SETUP AND CONFIGURATION**

### **•FRONT PANEL OPERATION**



The projector configuration can be set conveniently via push buttons and color touch screen.

To browse through or change the projector's settings, touch the white area of the touch screen or press OK button for more than 3s(Only powered by the battery, pressing the OK button) to unlock the screen, then press key to enter the projector's function menus. Each main menu has its sub-menus. And each menu stands for special function. For the details, please see the following 6<sup>th</sup> point "Operation Menu":

1. At the page to set the fixture's functions, press , , , keys or their respective icons to select the functions desired.
2. While at 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> level of menus, the key is for ESCAPE, but key won't work, and key is used for ENTER. Press key to save the changes or enter into the sub menus. Press or keys to change the numbers(minus or plus). Or touch the option needed for change.

Shortcut keys: After the Function Menu is entered into, there are all options for the functions on the top of the screen. On the right there are 3 shortcut keys like , Lamp Control and English/Chinese.

### **• DMX START ADDRESS**

Each projector must be given a DMX start address so that the correct projector responds to the correct control signals. This DMX start address is the channel number from which the projector starts to "listen" to the digital control information being sent out from the controller. The projector has 3 DMX modes. There are standard mode, short mode and extended mode. For example standard mode has 19 channels, so set the No. 1 projector's address 001, No. 2 projector's address 020, No. 3 projector's address 039, No. 4 projector's address 058, and so on.

Switch on the Projector. Press key more than 3 seconds to unlock panel, then press key to enter into the fixture's operation menus.

Select DMX Address icon and press OK key or touch the icon directly on the display and select DMX address at the 2<sup>nd</sup> level menu for the address setting.

Press or keys or touch <, > displayed for the DMX address desired.

Press OK key to confirm.

Press the key to go back to the upper level menu.

### **•DMX WIRELESS CONTROL**

The wireless control is optional. If fitted with wireless DMX module and the antenna, the fixture can achieve remote control and do

as commanded.

The setup of it is below:

1. Press **OK** for more than 3s to unlock the control panel, then press **▶** key to enter into the operation menu and select “Config Settings”.
2. Select “Wireless First” or “Wireless Only” from the menu of “Signal Select”.

Only after the projector is linked with a transmitter, can it receive wireless signal sent by the transmitter. If unlinking it, Press “Enter” for the menu of Un-link Wireless under the upper level menu of Config Settings , then the fixture is unlinked with the wireless transmitter.

#### •STAND-ALONE MODE

Operate the projector without connecting with a controller, enable the master mode through the operation panel, the projector will run in Stand-Alone mode automatically.

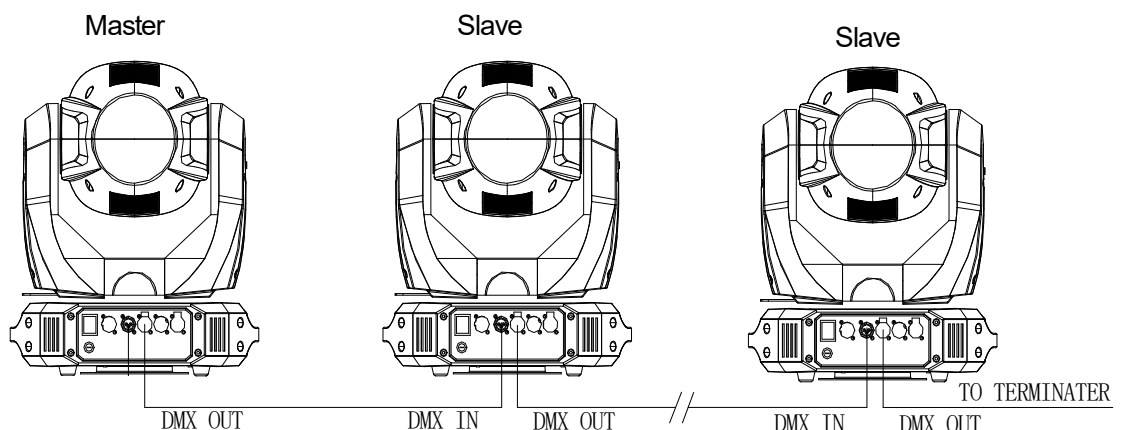
DMX address can be set at any number within 512.

#### •MASTER/SLAVE MODE

Many projectors can run synchronously in the Master/Slave mode by linking them with each other. First, connect the first fixture’s DMX output to the second fixture’s DMX input using XLR-XLR control cable and then connect the second fixture’s DMX output to the third fixture’s DMX input, and so on until all projector are connected in this way. Eventually connect the last fixture’s DMX output to a DMX terminator. Set 1<sup>st</sup> projector as the master and others are Slaves.

Start Addresses of all Slaves are 001; Operation mode of the Master can be set any mode for a Master’ and Slaves’ operation mode can be set accordingly.

After Powered on, the group will run in Master/Slave Mode



## 6. OPERATION MENU

| 1st LEVEL                                                                           | 2nd LEVEL           | 3rd LEVEL                                                       | 4th LEVEL        | 5th LEVEL |
|-------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------|------------------|-----------|
|  | Address             | 1-496(Short Mode)<br>1-494(Standard Mode)<br>1-492(Extend Mode) |                  |           |
|                                                                                     | DMX Address         |                                                                 |                  |           |
|                                                                                     | IP Address          | Default IP Address                                              | 2.X.X.X/10.X.X.X |           |
|                                                                                     |                     | Custom IP Address                                               | X.X.X.X          |           |
|                                                                                     | Subnet Mask         | X.X.X.X                                                         |                  |           |
|  | Artnet Universe     | 0-255                                                           |                  |           |
|                                                                                     | sACN Universe       | 1-XXXX                                                          |                  |           |
|                                                                                     | Reset               | Really Reset?                                                   |                  |           |
|                                                                                     | Pan&Tilt Reset      | Really Reset?                                                   |                  |           |
|                                                                                     | Colour System Reset | Really Reset?                                                   |                  |           |
|                                                                                     | Gobo Reset          | Really Reset?                                                   |                  |           |
|  | Dimmer/Strobe Reset | Really Reset?                                                   |                  |           |
|                                                                                     | Fo.Fr.Pr. Reset     | Really Reset?                                                   |                  |           |
|                                                                                     | Config Settings     | Short 17CH                                                      |                  |           |
|                                                                                     | DMX Channel Mode    | Standard 19CH                                                   |                  |           |
|                                                                                     |                     | Extended 21CH                                                   |                  |           |
|                                                                                     |                     | View Selected Mode                                              | CH01             |           |

|                                                                                     |                                                                                     |                                        |                      |                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                     |                                        | CH02<br>...<br>CHXXX |                                                                                                                                                                                                                                                                                     |
|                                                                                     | Lamp Control                                                                        | Lamp Control                           | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | On By Power On                         | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Control By DMX                         | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | ECO Power                              | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     | Signal Select                                                                       | XLR Only                               |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | XLR First                              |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Wireless Only                          |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Wireless First                         |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Wireless In/XLR Out                    |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | ArtNet Only                            |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | ArtNet In/XLR Out                      |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | sACN Only                              |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | sACN In/XLR Out                        |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     | Loss of DMX                                                                         | Normal time out                        |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Hold Last Value                        |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     | Display Config                                                                      | Display Mode                           | Off After Delay      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     |                                        | On Always            |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Display Invert                         | Invert OFF           |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     |                                        | Invert ON            |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     |                                        | Invert Auto          |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Language Setting                       | English              |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     |                                        | Chinese              |                                                                                                                                                                                                                                                                                     |
|                                                                                     | Temperature Unit                                                                    | Celsius Degree                         |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Fahrenheit Degree                      |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     | Un-Link Wireless                                                                    | Really Un-Link?<br>Confirm or Cancel   |                      |                                                                                                                                                                                                                                                                                     |
|                                                                                     | Factory Defaults                                                                    | Restore Defaults?<br>Confirm or Cancel |                      |                                                                                                                                                                                                                                                                                     |
| Option Settings                                                                     |  | Pan DMX Invert                         | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Tilt DMX Invert                        | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Pan Tilt Swap                          | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | XY Feedback                            | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | Pan/Tilt mode                          | Speed/Time           | Note: "Speed Mode" means Pan and Tilt will move from Point A to Point B at their respective maximum speeds. "Time Mode" means both Pan and Tilt will arrive at designated point at the same time. It's advised Time Mode be used if the projector runs circles or in oblique lines. |
|                                                                                     | Invert Settings                                                                     | Dimmer Invert                          | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     |                                                                                     | CYM Invert                             | OFF/ ON              |                                                                                                                                                                                                                                                                                     |
|                                                                                     | Color Positions                                                                     | Step/Linear                            |                      |                                                                                                                                                                                                                                                                                     |
| Information                                                                         | View DMX Values                                                                     | Channel Strobe      Value<br>× × ×     |                      |                                                                                                                                                                                                                                                                                     |

|                                                                                     |                       |                                                                                                   |                                             |                                                                                                       |
|-------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------|
|   |                       | ... ..<br>... ..                                                                                  |                                             |                                                                                                       |
|                                                                                     | Lamp Hours            | Lamp Hours=××××H<br>Reset Lamp Hours                                                              |                                             |                                                                                                       |
|                                                                                     | Total Hours           | Total Hours=××××H                                                                                 |                                             |                                                                                                       |
|                                                                                     | Temperature           | Display Board = ×××C<br>Pan&Tilt Board = ×××C<br>Driver Board1 = ×××C<br>Head Sensor =×××C        |                                             |                                                                                                       |
|                                                                                     | Software Version      | PCB Board Sys Boot<br>Display Board ××× ×××<br>Pan&Tilt Board××× ××<br>Driver Board1 ××× ×××      |                                             |                                                                                                       |
|                                                                                     | Electronic SN         | ××××××××××                                                                                        |                                             |                                                                                                       |
|                                                                                     | RDM Device Label      | XR 380 Beam<br>ANSI E1.20 RDM                                                                     |                                             |                                                                                                       |
|                                                                                     | Fan Status            | Fan Speed RSpeed<br>Lamp Fan ××× ×××<br>Basic Fan ××× ×××<br>Head Fan1 ××× ××<br>Head Fan2 ××× ×× |                                             |                                                                                                       |
|                                                                                     | Fan Error             | Fan Error Count<br>Lamp Fan ×××<br>Basic Fan ×××<br>Head Fan1 ×××<br>Head Fan2 ×××                |                                             |                                                                                                       |
|                                                                                     | Acceleration Sensor   | X Axis: ×××<br>Y Axis: ×××<br>Z Axis: ×××<br>Position: ×××                                        |                                             |                                                                                                       |
|  | Manual Effect Control | Strobe ×××<br>Dimmer ×××<br>... ..<br>... ..                                                      |                                             |                                                                                                       |
|                                                                                     |                       | Factory Test ×××                                                                                  |                                             |                                                                                                       |
|  | DMX Mode              | Change Operation Mode?<br>Confirm or Cancel                                                       |                                             |                                                                                                       |
|                                                                                     | Master Mode           | Preset Memory                                                                                     | Change Operation Mode?<br>Confirm or Cancel |                                                                                                       |
|                                                                                     |                       | User Memory 1                                                                                     | Change Operation Mode?<br>Confirm or Cancel |                                                                                                       |
|                                                                                     |                       | User Memory 2                                                                                     | Change Operation Mode?<br>Confirm or Cancel |                                                                                                       |
|                                                                                     | Stand-Alone Mode      | Preset Memory                                                                                     | Change Operation Mode?<br>Confirm or Cancel |                                                                                                       |
|                                                                                     |                       | User Memory 1                                                                                     | Change Operation Mode?<br>Confirm or Cancel |                                                                                                       |
|                                                                                     |                       | User Memory 2                                                                                     | Change Operation Mode?<br>Confirm or Cancel |                                                                                                       |
|                                                                                     | Static Scene          | Change Operation Mode?<br>Confirm or Cancel                                                       |                                             |                                                                                                       |
|  | Edit User Memory      | Edit User Memory 1<br>/Edit User Memory 2                                                         | Scene XX<br>(1~200 Scenes)                  | Strobe ×××<br>Dimmer ×××<br>... ..<br>... ..<br>Fade Time ×××<br>Hold Time ×××<br>Delay Unit ms/s/min |

|  |                  |                     |                                          |                     |
|--|------------------|---------------------|------------------------------------------|---------------------|
|  |                  |                     |                                          | Link to Step    ××× |
|  |                  | Edit Static Scene   | Strobe    ×××                            |                     |
|  | Init User Memory | Reset User Memory 1 | Dimmer    ×××                            |                     |
|  |                  | Reset User Memory 2 | ...    ...                               |                     |
|  |                  | Reset Static Scene  | ...                                      |                     |
|  |                  |                     | Reset User Memory?<br>Confirm or Cancel  |                     |
|  |                  |                     | Reset User Memory?<br>Confirm or Cancel  |                     |
|  |                  |                     | Reset Static Scene?<br>Confirm or Cancel |                     |

## 7. DMX PROTOCOL

| Short mode | Standard mode | Extended Mode | FUNCTION    | DMX     | DESCRIPTION                    |
|------------|---------------|---------------|-------------|---------|--------------------------------|
| 1          | 1             | 1             | Strobe      | 000-010 | Close                          |
|            |               |               |             | 011-025 | Open                           |
|            |               |               |             | 026-225 | Strobe from slow to fast       |
|            |               |               |             | 226-246 | Strobe Macro(Strobe at random) |
|            |               |               |             | 247-255 | Open                           |
| 2          | 2             | 2             | Dimmer      | 000-008 | Close                          |
|            |               |               |             | 009-255 | Linear Dimmer (0-100%)         |
|            |               | 3             | Dimmer Fine | 000-255 | Dimmer in 16 bit               |
| 3          | 3             | 4             | Color Wheel | 000-006 | White                          |
|            |               |               |             | 007-010 | White /Red                     |
|            |               |               |             | 011-015 | Red                            |
|            |               |               |             | 016-019 | Red/Blue                       |
|            |               |               |             | 020-024 | Blue                           |
|            |               |               |             | 025-028 | Blue/Yellow                    |
|            |               |               |             | 029-033 | Yellow                         |
|            |               |               |             | 034-037 | Yellow/ Green                  |
|            |               |               |             | 038-042 | Green                          |
|            |               |               |             | 043-047 | Green / Magenta                |
|            |               |               |             | 047-051 | Magenta                        |
|            |               |               |             | 052-055 | Magenta / Sky Blue             |
|            |               |               |             | 056-060 | Sky Blue                       |
|            |               |               |             | 061-064 | Sky Blue/ Deep Red             |
|            |               |               |             | 065-069 | Deep Red                       |
|            |               |               |             | 070-073 | Deep Red / Deep Green          |
|            |               |               |             | 074-078 | Deep Green                     |
|            |               |               |             | 079-082 | Deep Green / Deep Yellow       |
|            |               |               |             | 083-087 | Deep Yellow                    |
|            |               |               |             | 088-091 | Deep Yellow/ Light Blue        |

|   |   |   |                  |         |                                                                     |
|---|---|---|------------------|---------|---------------------------------------------------------------------|
|   |   |   |                  | 092-096 | Light Blue                                                          |
|   |   |   |                  | 097-100 | Light Blue/ Orange                                                  |
|   |   |   |                  | 101-105 | Orange                                                              |
|   |   |   |                  | 106-109 | Orange / CTO                                                        |
|   |   |   |                  | 110-114 | CTO                                                                 |
|   |   |   |                  | 115-118 | CTO/ Diffuser                                                       |
|   |   |   |                  | 119-123 | Diffuser                                                            |
|   |   |   |                  | 124-127 | Diffuser / White                                                    |
|   |   |   |                  | 128-191 | Forward Rotation (From slow to Fast)                                |
|   |   |   |                  | 192-255 | Reverse Rotation (From slow to Fast)                                |
|   |   | 5 | Color wheel Fine | 000-255 | Color wheel in 16 bit (Valid while the wheel positioning is linear) |
| 4 | 4 | 6 | Fixed Gobo Wheel | 000-008 | White                                                               |
|   |   |   |                  | 009-015 | Gobo 1                                                              |
|   |   |   |                  | 016-022 | Gobo 2                                                              |
|   |   |   |                  | 023-029 | Gobo 3                                                              |
|   |   |   |                  | 030-036 | Gobo 4                                                              |
|   |   |   |                  | 037-043 | Gobo 5                                                              |
|   |   |   |                  | 044-050 | Gobo 6                                                              |
|   |   |   |                  | 051-057 | Gobo 7                                                              |
|   |   |   |                  | 058-064 | Gobo 8                                                              |
|   |   |   |                  | 065-071 | Gobo 9                                                              |
|   |   |   |                  | 072-078 | Gobo 10                                                             |
|   |   |   |                  | 079-085 | Gobo 11                                                             |
|   |   |   |                  | 086-092 | Gobo 12                                                             |
|   |   |   |                  | 093-099 | Gobo 13                                                             |
|   |   |   |                  | 100-106 | Gobo 14                                                             |
|   |   |   |                  | 107-113 | Gobo 15                                                             |
|   |   |   |                  | 114-120 | Gobo 16                                                             |
|   |   |   |                  | 121-127 | White                                                               |
|   |   |   |                  | 128-159 | Forward Rotation (From slow to Fast)                                |
|   |   |   |                  | 160-191 | Reverse Rotation (From slow to Fast)                                |
|   |   |   |                  | 192-195 | Shake 1 (From slow to Fast)                                         |
|   |   |   |                  | 196-199 | Shake 2 (From slow to Fast)                                         |
|   |   |   |                  | 200-203 | Shake 3 (From slow to Fast)                                         |
|   |   |   |                  | 204-207 | Shake 4 (From slow to Fast)                                         |
|   |   |   |                  | 208-211 | Shake 5 (From slow to Fast)                                         |
|   |   |   |                  | 212-215 | Shake 6 (From slow to Fast)                                         |
|   |   |   |                  | 216-219 | Shake 7 (From slow to Fast)                                         |
|   |   |   |                  | 220-223 | Shake 8 (From slow to Fast)                                         |
|   |   |   |                  | 224-227 | Shake 9 (From slow to Fast)                                         |

|   |   |   |                     |         |                                      |
|---|---|---|---------------------|---------|--------------------------------------|
|   |   |   |                     | 228-231 | Shake 10 (From slow to Fast)         |
|   |   |   |                     | 232-235 | Shake 11 (From slow to Fast)         |
|   |   |   |                     | 236-239 | Shake 12 (From slow to Fast)         |
|   |   |   |                     | 240-243 | Shake 13 (From slow to Fast)         |
|   |   |   |                     | 244-247 | Shake 14 (From slow to Fast)         |
|   |   |   |                     | 248-251 | Shake 15 (From slow to Fast)         |
|   |   |   |                     | 252-255 | Shake 16 (From slow to Fast)         |
| 5 | 5 | 7 | Rotating Gobo Wheel | 000-007 | White                                |
|   |   |   |                     | 008-017 | Gobo 1                               |
|   |   |   |                     | 018-027 | Gobo 2                               |
|   |   |   |                     | 028-037 | Gobo 3                               |
|   |   |   |                     | 038-047 | Gobo 4                               |
|   |   |   |                     | 048-057 | Gobo 5                               |
|   |   |   |                     | 058-067 | Gobo 6                               |
|   |   |   |                     | 068-077 | Gobo 7                               |
|   |   |   |                     | 078-087 | Gobo 8                               |
|   |   |   |                     | 088-097 | Gobo 9                               |
|   |   |   |                     | 098-107 | Gobo 10                              |
|   |   |   |                     | 108-117 | Gobo 11                              |
|   |   |   |                     | 118-127 | Gobo 12                              |
|   |   |   |                     | 128-143 | Reverse Rotation (From slow to Fast) |
|   |   |   |                     | 144-159 | Forward Rotation (From slow to Fast) |
|   |   |   |                     | 160-167 | Shake 1 (From Fast to slow)          |
|   |   |   |                     | 168-175 | Shake 2 (From Fast to slow)          |
|   |   |   |                     | 176-183 | Shake 3 (From Fast to slow)          |
|   |   |   |                     | 184-191 | Shake 4 (From Fast to slow)          |
|   |   |   |                     | 192-199 | Shake 5 (From Fast to slow)          |
|   |   |   |                     | 200-207 | Shake 6 (From Fast to slow)          |
|   |   |   |                     | 208-215 | Shake 7 (From Fast to slow)          |
|   |   |   |                     | 216-223 | Shake 8 (From Fast to slow)          |
|   |   |   |                     | 224-231 | Shake 9 (From Fast to slow)          |
|   |   |   |                     | 232-239 | Shake 10 (From Fast to slow)         |
|   |   |   |                     | 240-247 | Shake 11 (From Fast to slow)         |
|   |   |   |                     | 248-255 | Shake 12 (From Fast to slow)         |
| 6 | 6 | 8 | Gobo Rotation       | 000-127 | Gobo Indexing(0-540°)                |
|   |   |   |                     | 128     | Stop                                 |
|   |   |   |                     | 129-188 | Forward Rotation (From slow to Fast) |
|   |   |   |                     | 189-195 | Stop                                 |
|   |   |   |                     | 196-255 | Reverse Rotation (From slow to Fast) |
|   | 7 | 9 | Gobo Rotation Fine  | 000-255 | Gobo Rotation in 16 bit              |
| 7 | 8 |   |                     | 000-063 | White                                |

|    |    |    |                       |                                                                                                                         |                                             |
|----|----|----|-----------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|    |    | 10 | Effect Wheel          | 064-127                                                                                                                 | Prism                                       |
|    |    |    |                       | 128-191                                                                                                                 | Frost Filter                                |
|    |    |    |                       | 192-255                                                                                                                 | Linear Prism                                |
| 8  | 9  | 11 | Effect Wheel Rotation | 000-127                                                                                                                 | Indexing                                    |
|    |    |    |                       | 128                                                                                                                     | Stop                                        |
|    |    |    |                       | 129-188                                                                                                                 | Anti- Clockwise rotation from slow to fast  |
|    |    |    |                       | 189-195                                                                                                                 | Stop                                        |
|    |    |    |                       | 196-255                                                                                                                 | Clockwise rotation from slow to fast        |
| 9  | 10 | 12 | Prism                 | 000-016                                                                                                                 | White                                       |
|    |    |    |                       | 017-255                                                                                                                 | Prism                                       |
| 10 | 11 | 13 | Prism Rotation        | 000-063                                                                                                                 | Stop                                        |
|    |    |    |                       | 064-127                                                                                                                 | Anti-Clockwise Rotation (From slow to Fast) |
|    |    |    |                       | 128-191                                                                                                                 | Stop                                        |
|    |    |    |                       | 192-255                                                                                                                 | clockwise Rotation (From slow to Fast)      |
| 11 | 12 | 14 | Focus                 | 000-255                                                                                                                 | Linear Focus                                |
|    | 13 | 15 | Focus Fine            | 000-255                                                                                                                 | Focus in 16 bit precision                   |
| 12 | 14 | 16 | Pan                   | 000-255                                                                                                                 | Pan(0°~540°)                                |
| 13 | 15 | 17 | Pan Fine              | 000-255                                                                                                                 | Pan in 16 bit precision                     |
| 14 | 16 | 18 | Tilt                  | 000-255                                                                                                                 | Tilt(0°~270°)                               |
| 15 | 17 | 19 | Tilt Fine             | 000-255                                                                                                                 | Tilt in 16 bit precision                    |
| 16 | 18 | 20 | Pan & Tilt Speeds     | 000-255                                                                                                                 | Pan & Tilt Speed from Fast to Slow          |
| 17 | 19 | 21 | Control               | 000-019                                                                                                                 | Reserved                                    |
|    |    |    |                       | The following functions can be activated unless staying on the DMX for 5s and the setup won't be saved after power off. |                                             |
|    |    |    |                       | 020-024                                                                                                                 | Graphic display On                          |
|    |    |    |                       | 025-029                                                                                                                 | Graphic display Off                         |
|    |    |    |                       | 030-034                                                                                                                 | Reserved                                    |
|    |    |    |                       | 035-039                                                                                                                 | Lamp Half Power                             |
|    |    |    |                       | 040-044                                                                                                                 | Lamp Full Power                             |
|    |    |    |                       | 045-089                                                                                                                 | Reserved                                    |
|    |    |    |                       | 090-094                                                                                                                 | Pan/Tilt speed mode                         |
|    |    |    |                       | 095-099                                                                                                                 | Pan/Tilt time mode                          |
|    |    |    |                       | 100-129                                                                                                                 | Reserved                                    |
|    |    |    |                       | 130-139                                                                                                                 | Lamp On                                     |
|    |    |    |                       | 140-149                                                                                                                 | Pan/Tilt reset                              |
|    |    |    |                       | 150-159                                                                                                                 | Colour system reset                         |
|    |    |    |                       | 160-169                                                                                                                 | Gobo wheels reset                           |
|    |    |    |                       | 170-179                                                                                                                 | Dimmer/Shutter reset                        |
|    |    |    |                       | 180-189                                                                                                                 | Focus/prism reset                           |
|    |    |    |                       | 190-199                                                                                                                 | Reserved                                    |
|    |    |    |                       | 200-209                                                                                                                 | Total reset                                 |
|    |    |    |                       | 210-229                                                                                                                 | Reserved                                    |
|    |    |    |                       | 230-239                                                                                                                 | Lamp Off                                    |
|    |    |    |                       | 240-255                                                                                                                 | Reserved                                    |

Note:

1. The lamp can't be re-struck 1minute after lamp-off;
2. Fan error can cause lamp-off.
3. "Speed Mode" means Pan and Tilt will move from Point A to Point B at their respective maximum speeds."Time Mode" means



both Pan and Tilt will arrive at designated point at the same time. It's advised Time Mode be used if the projector runs circles or in oblique lines.

## 8. SIGNS ON THE TOUCH SCREEN

|                                                                                   |                 |                                                                                   |                 |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------|
|  | Lamp Control    |  | Option Settings |
|  | Chinese/English |  | Information     |
|  | Error Messages  |  | Service         |
|  | Address         |  | Operation Mode  |
|  | Reset           |  | User Memories   |
|  | Config Settings |                                                                                   |                 |

## 9. ERROR MESSAGE

The system can detect some errors during the reset, if  displayed, touch  to view the error.  
The error messages are as follows:

| Name                  | Type                          | Correction                                               |
|-----------------------|-------------------------------|----------------------------------------------------------|
| Pan                   | Timeout/magnet Sensor/Encoder | Check if wiring, positioning parts and motors are normal |
| Tilt                  | Timeout/magnet Sensor/Encoder | Check if wiring, positioning parts and motors are normal |
| Color Wheel           | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Fixed gobo wheel      | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Rotating gobo wheel   | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Gobo rotation         | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Dimmer                | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Effect wheel          | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Effect wheel rotation | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Prism                 | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Prism rotation        | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Focus                 | Timeout                       | Check if wiring, positioning parts and motors are normal |
| Lamp fan              | Error                         | Check if fan and its wiring are normal                   |
| Chamber fan           | Error                         | Check if fan and its wiring are normal                   |
| Head fan1             | Error                         | Check if fan and its wiring are normal                   |
| Head Fan 2            | Error                         | Check if fan and its wiring are normal                   |
| Pan and Tilt Board    | Error                         | Check signal wire                                        |
| Driver Board 1        | Error                         | Check signal wire                                        |

|                     |                  |                              |
|---------------------|------------------|------------------------------|
| Acceleration sensor | Error            | Check signal wire            |
| Lamp on             | Timeout          | Check if the lamp is damaged |
| Lamp Life           | Timeout /Warning |                              |
| Lamp Off[Fan Error] | Error            | Check if all fans are normal |
| Lapsed Time         | Timeout          |                              |
| Time IC             | Error            |                              |
| Lapsed Time         | X days           |                              |
| Working time set-up | Successful       |                              |

## 10. TECHNICAL DATA

### ELECTRIC PARAMETERS

Input voltage 100V~240V AC, 50/60Hz

Input power 550W@100V

500W@220V

Power factor: PF>0.9

### LAMP:

Philips

MSD Platinum Flex 300S

Colour Temperature

7800K

Manufacturers Rated Lamp Life

6000hrs (Reference the Spec. of Light source)

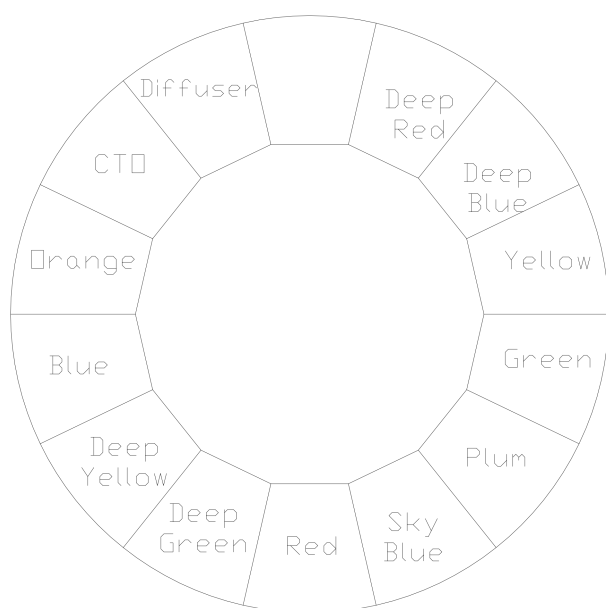
### COLORS:

1 Color Wheel

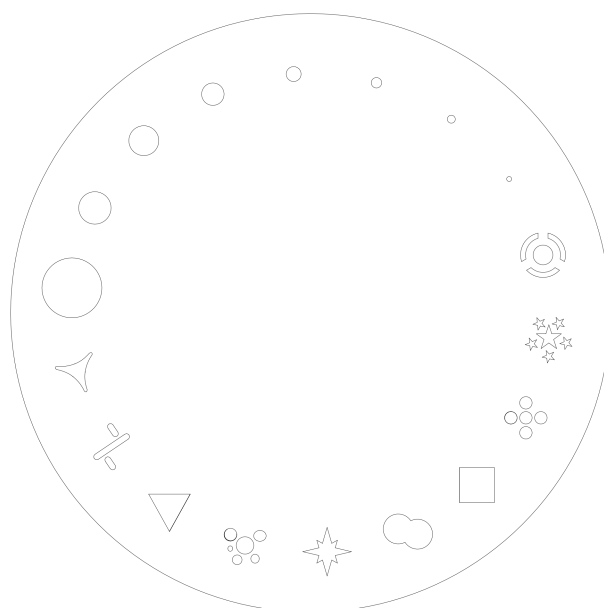
13 diachronic color filters plus white

variable speed and bi-directional rainbow effect

linear color changing is available



Color Wheel



Fixed gobo wheel

### GOBOS:

1 Fixed gobo wheel :

16 interchangeable gobos+ white

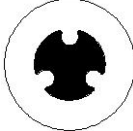
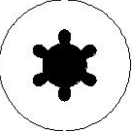
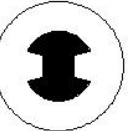
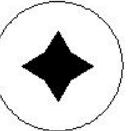
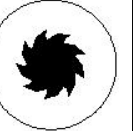
Shaking and bi-directional wheel scrolling at variable speeds

Rotating Gobo Wheel:

1 Rotating gobo wheel: 12 gobos+ Open

Shaking and bi-directional wheel scrolling at variable speeds

Gobo changeable. Gobo outer size:  $\Phi 12\text{mm}$ , image size  $\Phi 9\text{mm}$

| Gobo 1                                                                            | Gobo 2                                                                            | Gobo 3                                                                            | Gobo 4                                                                            | Gobo 5                                                                             | Gobo 6                                                                              | Gobo 7                                                                              |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |
| Gobo 8                                                                            | Gobo 9                                                                            | Gobo 10                                                                           | Gobo 11                                                                           | Gobo 12                                                                            |                                                                                     |                                                                                     |
|  |  |  |  |  |                                                                                     |                                                                                     |

## PRISM/EFFECT WHEEL

3 Prisms: standard : individual 8-facet prism; 16-facet prism+ linear prism+ Frost + Open (bi-directional rotation)

(Optional 3-16 facet prism or gradient prism)

## FOCUS

0-100% linearly adjustable by DMX

## STROBE:

Double shutter blades, 0.3~20 F.P.S

## HEAD MOVEMENT:

Pan 540°, Tilt 270° with auto position correction

## BEAM ANGLE

0°~2.3°, Linear zoom

## CONTROL:

DMX512 and 5 pin interfaces

17 channels in short mode, 19 channels in standard mode 21 channels in extended mode

Adjustable mode

## OTHER FUNCTIONS:

Adjustable Pan & Tilt speed

Fixture and lamp usage time display

Modular construction for easy maintenance

DMX512 wireless receiver

DMX512 wireless transmitter (optional)

#### HOUSING:

Composite plastic, IP20

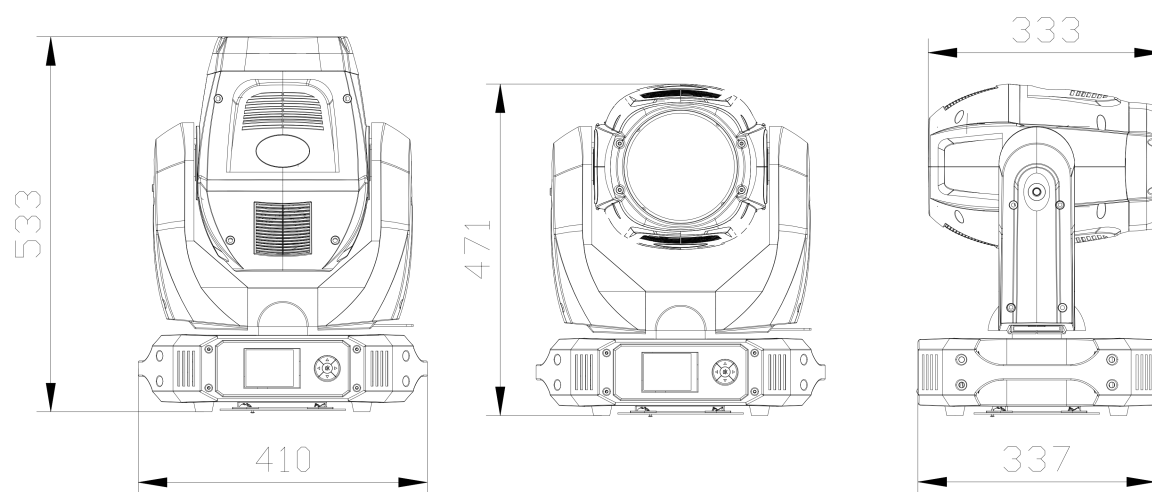
#### WEIGHT:

18 Kg

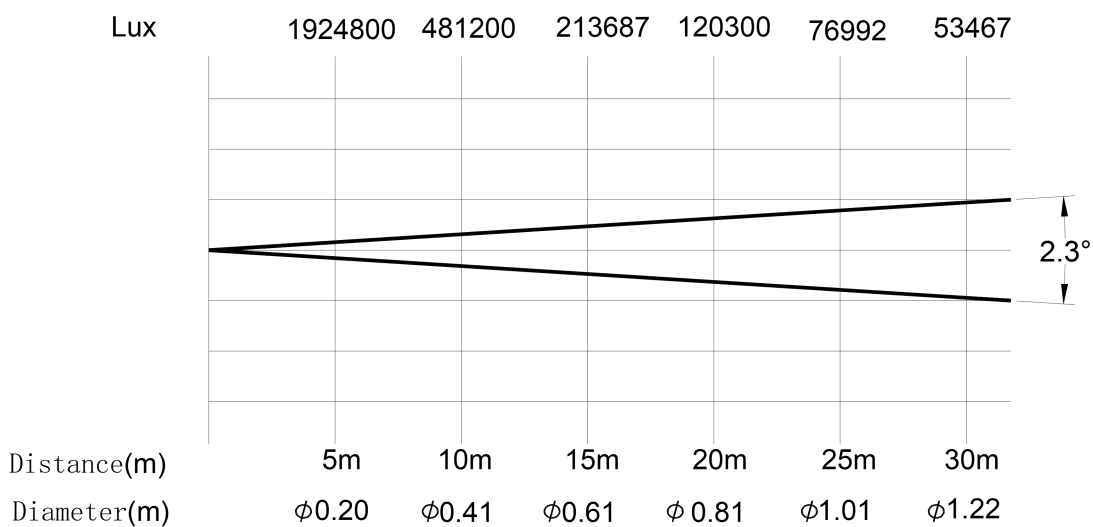
#### RUNNING TEMPERATURE

Ambient temperature 40°C at maximum

#### SIZES:



#### LIGHT OUTPUT:



## 11. CIRCUIT DIAGRAM



## 12.COMPONENT ORDER CODES

| NAME                                         | CODE NUMBER | QTY | REMARKS |
|----------------------------------------------|-------------|-----|---------|
| LAMP BALLAST                                 | 040070148   | 1   |         |
| LAMP                                         | 100070052   | 1   |         |
| SWITCHING POWER SUPPLY                       | 192010223   | 1   |         |
| FUSE                                         | 270041005   | 1   |         |
| PAN MOTOR                                    | 030040205A  | 1   |         |
| TILT MOTOR                                   |             | 1   |         |
| PRISM WHEEL MOTOR                            | 030040217A  | 1   |         |
| ROTATING GOBO WHEEL MOTOR                    | 030040073B  | 1   |         |
| COLOR WHEEL MOTOR                            | 030040203   | 1   |         |
| ROTATING MOTOR FOR PRISMS ON THE PRISM WHEEL | 030040220A  | 2   |         |
| FOCUS MOTOR                                  | 030040073B  | 1   |         |
| STROBE MOTOR                                 | 030040224B  | 1   |         |
| COLOR WHEEL ASSEMBLY                         | 120110784   | 1   |         |
| ROTATING GOBO WHEEL ASSEMBLY                 | 120111065   | 1   |         |
| PRISM WHEEL ASSEMBLY                         | 120110785   | 1   |         |
| 8-FACET PRISM ASSEMBLY                       | 120110786   | 1   |         |
| FAN                                          | 030060098C  | 1   |         |
| FAN                                          | 030060117   | 1   |         |
| FAN                                          | 030060052A  | 1   |         |
| FAN                                          | 030060122   | 4   |         |
| FAN                                          | 030069005   | 1   |         |
| FIXED GOBO WHEEL ASSEMBLY                    | 120111152   | 1   |         |
| FIXED GOBO WHEEL MOTOR                       | 030040154A  | 1   |         |
| 8-FACET PRISM IN/OUT MOTOR                   | 030040221A  | 1   |         |
| 8-FACET PRISM ROTATING MOTOR                 | 030040073B  | 1   |         |

## **APPENDIX: SOME ITEMS REQUIRING ATTENTION AS FOR THE USE OF DISCHARGE LAMP**

For the effective extension of the lifespan of discharge lamp, some factors impacting its lifespan are specially listed below, based on manufacturing technology and working mechanism of discharge lamps., physical attributions of the lamps including lamp striking theory( ignited by focused high voltage—highly pressurized air broken down and burning—lamp on at high temperature with thermal protection— stable running) and lamp off theory( lamp off power —lamp off at high temperature and thermal protection-highly pressurized air vaporizing evenly—completion of lamp off.

1. The sequence of lamp striking: Power on→lamp striking by controller(advised not to strike lamp via power on), the sequence of lamp off: lamp off by controller→ mains power shut off (advised not to turn off lamp by shutting off mains power)
2. Within 1 min after lamp striking, it shouldn't re-strike it frequently. ONLY more than 10 min after the projector is cooled after lamp off, can the lamp be re-stricken again.
3. Within 5 min after lamp striking, it can't be turned off. During the lamp striking process, it's forbidden to turn off lamp via shutting off mains power, but via controller. More than 5 min after the projector is cooled after lamp off, can the mains power be shut off.
4. The projector is advised not to point to the same point for long time, i.e., it shouldn't be used for long time at a fixed angle.
5. The projector is advised not to use double colors for long time, i.e., it shouldn't use 2 or more colors for long time.
6. The projector is advised not to keep shutters closed while lamp on for long time, i.e., it should be less than 1 hr after shutters closed after lamp on.

It is advised not to use lamp half power function for long time.

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P/N:320021541  
Old Version:20230525  
New Version:20230817