

XLED 4022RZ

PR-8541

The user manual contains important information about the safe installation and use of a projector. Please read and follow these instructions carefully and keep the manual in a safe place for future reference.

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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 Signal Cable | 1 | Pc | |
| Safety cord | 1 | Pc | |
| User manual | 1 | Pc | |
| G clamps | 2 | Pcs | |
| Ω Clamp | 2 | Pcs | |

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.

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

•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

•After lamp switched on, the minimum distance between the projector and illuminated surface is 10m

•lens and other optical parts shall be replaced immediately if they have deformed or been damaged, otherwise the light output will be compromised.



•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 running for 30minutes, the temperature of the housing of the projector is 45°C.After stable operation , its temperature is 60°C.

•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 mount the projector directly on inflammable surface. 

•Do not project the beam straightly on combustibile items and the minimum distance between the projector and illuminated items is 10m.

•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.

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 15days. 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 20days and internal optical systems every 30/60days. Keep lens clean and do not touch optical parts with bare hands.



•Before any maintenance and cleaning, please ensure the project 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.

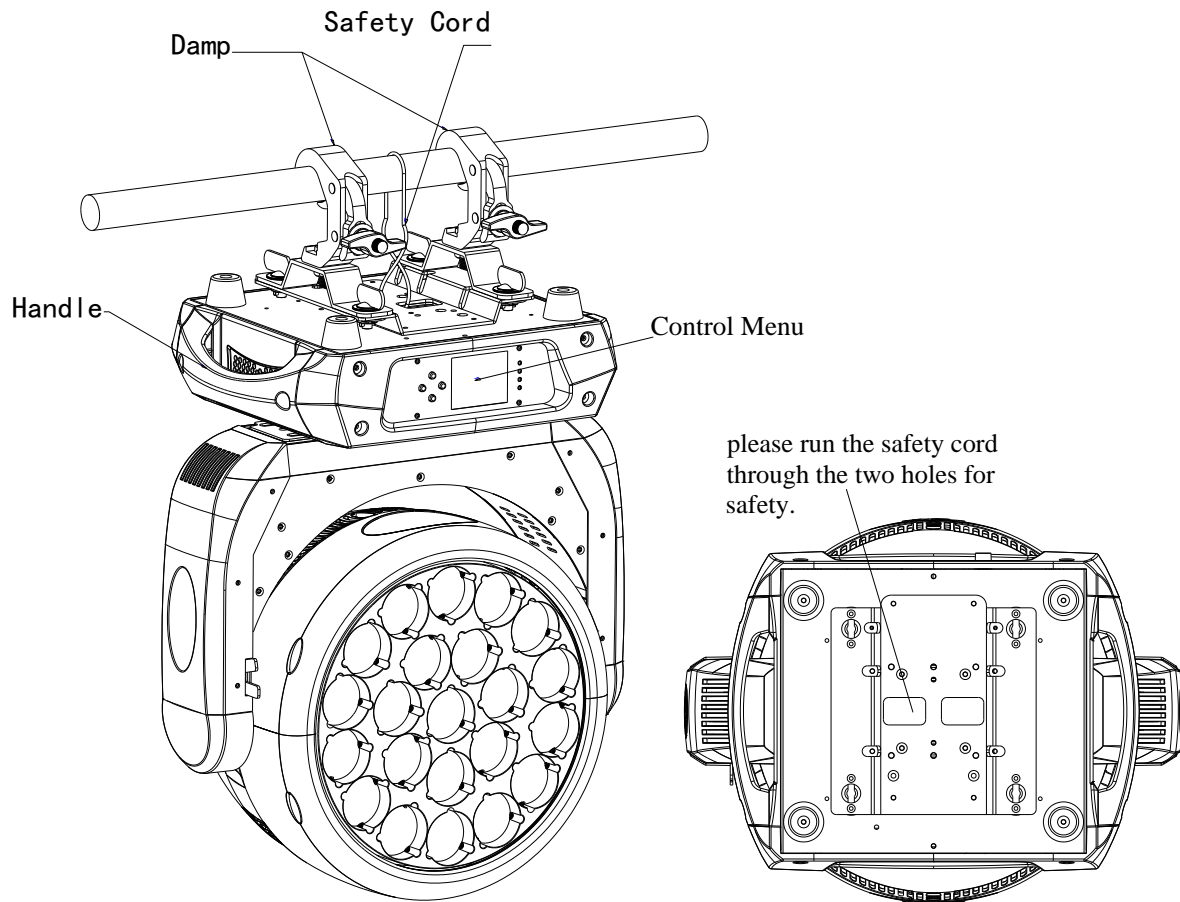
•TROUBLESHOOTING

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

3. 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

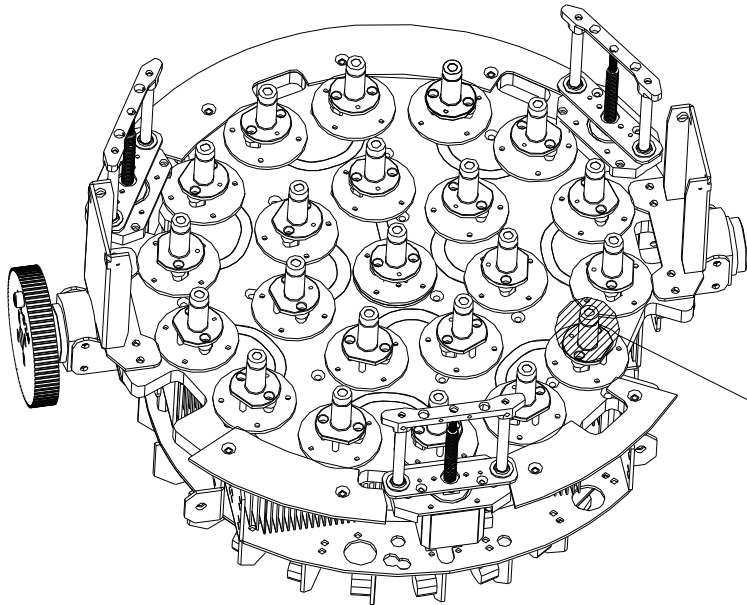


Take 2 clamps and the safety cord out from the package and mount 2 clamps on the underside of fixture with 2 retainers attached to each clamp. Hang the fixture on the structure and fasten the screws attached to each clamp. (See the **WARNING** on the underside of the base as shown above) **To pass the SAFETY CORD through the HOLES for safety!** 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 to is secure and strong enough to support the weight of a XR 1000 Framing

• PACKAGING

To avoid damaging or deforming the lens plate before packaging, please follow the instructions below: If the fixture needs to be packaged, before packaging, it should be powered-on to make the lens plate at the lowest position; the top of the lens plate must not be higher than the top of the head cover, otherwise, the lens plate will be damaged and malfunction. Please note it!!

Note: Because the LED product consumes high power and the top end of its mixing rod is convex surface being very hot if the light is on, the mixing rod's surface must be very clean without any dirt. If it is dirty, please clean it in time, otherwise the dirt on the surface will absorb much heat, resulting in the mixing rod being burned. Please note it!!



The surface of black lighting pillar must be clear and no dust.



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

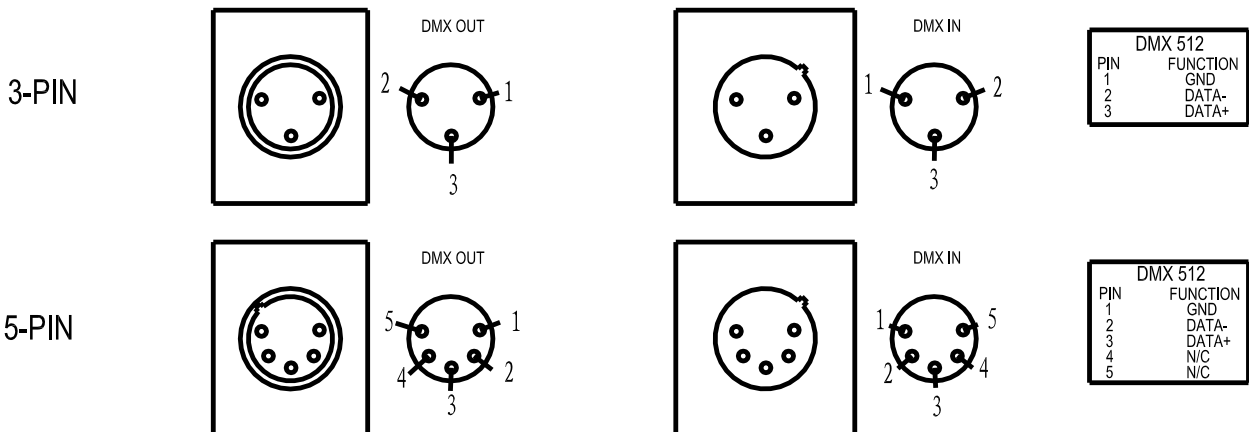
Before power connection, please ensure the power supplied must match what the nameplate says. It is recommended that each projector be connected with power separately so that they may be individually switched on and off.

Note: If projectors are connected in series, please connect POWERIN port of the 1st projector with the Power Mains, then connect its POWER OUT with POWER IN of the 2nd 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 2.5mm².



- 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.

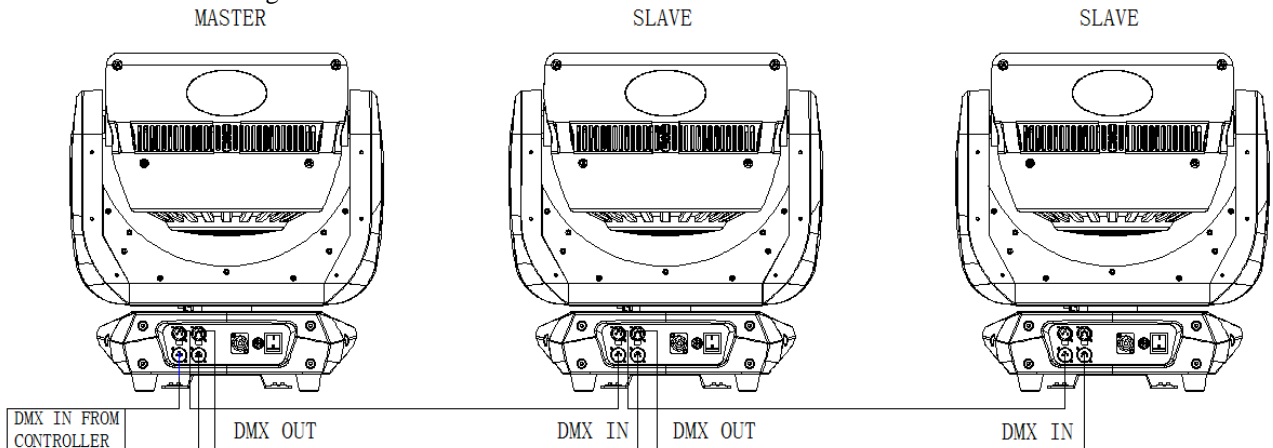
.DMX CONTROL CONNECTION:



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).

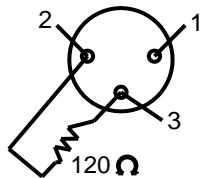
Connect the controller's DMX output to the first fixture's DMX input, and connect the first fixture's DMX output to the second fixture's DMX input and connect the rest fixtures in the same way. Eventually connect the last fixture's DMX output to a DMX terminator as shown in the figure below.



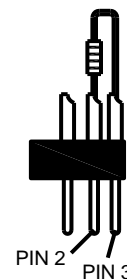
.DMX TERMINATOR

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 120Ω (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:

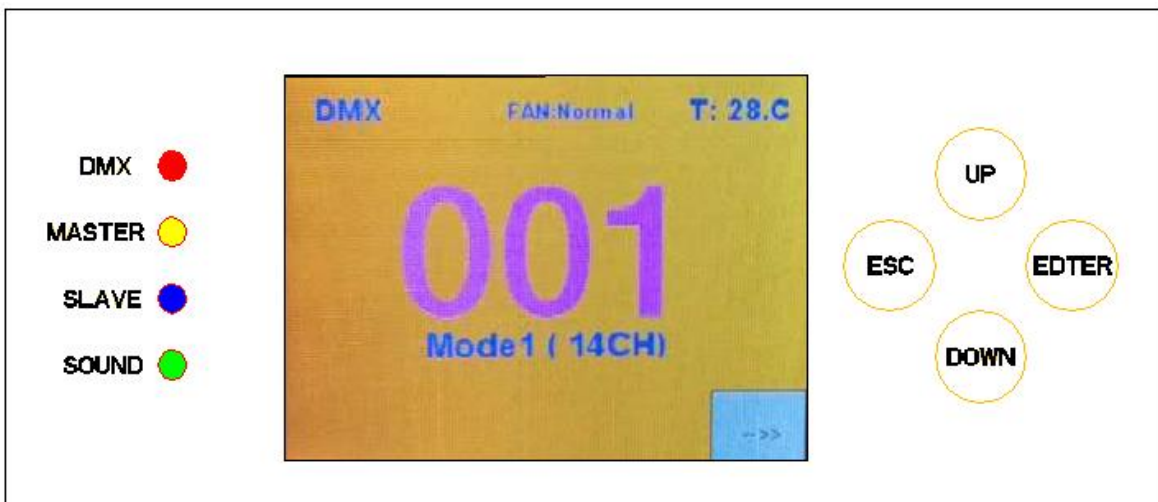


DMX TERMINATOR CONNECTION
 Connect a 120Ω(OHM) resistor across pins 2 and 3 in an XLR plug and insert into the DMX out socket on the last unit in the chain.



4. SETUP AND CONFIGURATION

•Front Panel Operation



Press ESC button on the left or the sign of Arrow on the bottom right to enter into menu. The ESC button is used to enter into main menus and exit the current menu. And use UP or DOWN button to select any menu desired and press ENTER button to confirm.

There 4 LED indications on the control panel, which are red indication for DMX signal, yellow indication for Master fixture, blue indication for SLAVE fixture and green indication for SOUND control respectively.

The fixtures uses buttons coupled with touch screen to select menus, which makes the interface simple and clear and improves the operability very well.

Display Menu Functions:

| Item | Instruction | |
|--------------------|--|---|
| DMX | DMX Address | 1~512 Select |
| | DMX Channel | 15ch /28ch /30ch /81ch/104ch |
| | DMX Value | |
| Setting | Pan Inverse | On/Off |
| | Tilt Inverse | On/Off |
| | Fan Run Mode | Auto Mode Full Speed |
| | Dimmer Curve | Curve1 (/) Curve2 (S) Curve3 (J1) Curve4 (J2) |
| | Smooth Curve | On/Off |
| Show | | Show 1 Show 2 Show 3 Show 4 Standby |
| | Auto Show | |
| | Manual Test | Pan/Tilt/Zoom/Rotation/Dimmer/Strobe/Red/Green/Blue/White |
| | Factory Test | |
| | | |
| Reset | All Reset | On/Off |
| | Pan&Tilt Reset | On/Off |
| | Others Reset (Zoom & Lens Rotation) | On/Off |
| | Factory setting | YES/NO |
| Display | Language | 中文/English |
| | Blacklight | On/Off |
| | Direction | Forward Reserve |
| Information | Version | Current Software Version |
| | Temperature | Current Using Temperature |
| | Fan State | Normal Abnromal |
| | Used Time | Current Used Time |

5. DMX PROTOCOL

15 Channels

| Channel | Function | DMX Value | Description | Remark |
|---------|-------------------|-----------|----------------------------------|--------|
| 1 | Pan | 0-255 | 0°~540° horizontal scanning | |
| 2 | Tilt | 0-255 | 0°~240° vertical scanning | |
| 3 | Zoom | 0-255 | 4°~60° linear | |
| 4 | Rotation | 0-127 | 0°~51° | |
| | | 128-192 | Clockwise Fast-Slow | |
| | | 193-255 | Anti-clockwise Slow-Fast | |
| 5 | Dimmer | 0-255 | 0~100% linear | |
| 6 | Strobe | 0-15 | Open | |
| | | 16-131 | Strobe Slow-Fast | |
| | | 132-139 | Open | |
| | | 140-181 | Close quickly, then, open slowly | |
| | | 182-189 | Open | |
| | | 190-231 | Close slowly, then, open quickly | |
| | | 232-239 | Open | |
| | | 240-247 | Random strobe | |
| 248-255 | Open | | | |
| 7 | Red | 0-255 | 0~100% linear | |
| 8 | Green | 0-255 | 0~100% linear | |
| 9 | Blue | 0-255 | 0~100% linear | |
| 10 | White | 0-255 | 0~100% linear | |
| 11 | Color Temperature | 0 | No Change | |
| | | 1-255 | 10000K~2700K linear change | |
| 12 | Color Macro | 0-3 | Normal Control | |
| | | 4-127 | Color change 1~32 | |
| | | 129-131 | Sound Control 0 | |
| | | 132-135 | Sound Control 1 | |
| | | 136-139 | Sound Control 2 | |
| | | | | |
| | | 188-191 | Sound Control 15 | |
| | | 192-195 | Auto Mode 0 | |
| | | 196-199 | Auto Mode 1 | |
| | | 200-203 | Auto Mode 2 | |
| | | | | |
| 252-255 | Auto Mode 15 | | | |
| 13 | Color Macro Speed | 0-255 | Speed Slow-Fast | |
| 14 | Reset | 100-109 | Smooth dimming ON | |
| | | 150-159 | Smooth dimming OFF | |
| | | 200-209 | Machine reset | |
| 15 | Dimmer Curve | 0 | Memory (display default values) | |
| | | 1-63 | Curve1 (/) | |

| | | | | |
|---|--|---------|-------------|--|
| | | 64-127 | Curve2 (S) | |
| | | 128-191 | Curve3 (J1) | |
| | | 192-255 | Curve4 (J2) | |
| Notice: Channel 11 Color Temperature must be used together with RGBW | | | | |

28 Channels

| Channel | Function | DMX Value | Description | Remark |
|---------|----------------|-----------|----------------------------------|--------|
| 1 | Pan | 0-255 | 0°~540° horizontal scanning | |
| 2 | Pan Fine | 0-255 | 0°~2° horizontal scanning fine | |
| 3 | Tilt | 0-255 | 0°~240° vertical scanning | |
| 4 | Tilt Fine | 0-255 | 0°~2° vertical scanning fine | |
| 5 | Zoom | 0-255 | 4°~60° linear | |
| 6 | Zoom Fine | 0-255 | 0 ~ 1mm fine | |
| 7 | Rotation | 0-127 | 0°~51° | |
| | | 128-192 | Clockwise Fast-Slow | |
| | | 193-255 | Anti-clockwise Slow-Fast | |
| 8 | Rotation Fine | 0-255 | 0~1fine | |
| 9 | Pan/Tilt Speed | 0-255 | Speed Fast-Slow | |
| 10 | Reset | 100-109 | Smooth dimming ON | |
| | | 150-159 | Smooth dimming OFF | |
| | | 200-209 | Machine reset | |
| 11 | Dimmer | 0-255 | 0~100% Linear | |
| 12 | Strobe | 0-15 | Open | |
| | | 16-131 | Strobe Slow-Fast | |
| | | 132-139 | Open | |
| | | 140-181 | Close quickly, then, open slowly | |
| | | 182-189 | Open | |
| | | 190-231 | Close slowly, then, open quickly | |
| | | 232-239 | Open | |
| | | 240-247 | Random strobe | |
| 248-255 | Open | | | |
| 13 | Red 1 | 0-255 | 0~100% linear | |
| 14 | Green 1 | 0-255 | 0~100% linear | |
| 15 | Blue 1 | 0-255 | 0~100% linear | |
| 16 | White 1 | 0-255 | 0~100% linear | |
| 17 | Red 2 | 0-255 | 0~100% linear | |
| 18 | Green 2 | 0-255 | 0~100% linear | |
| 19 | Blue 2 | 0-255 | 0~100% linear | |
| 20 | White 2 | 0-255 | 0~100% linear | |
| 21 | Red 3 | 0-255 | 0~100% linear | |
| 22 | Green 3 | 0-255 | 0~100% linear | |
| 23 | Blue 3 | 0-255 | 0~100% linear | |

| | | | | |
|---|-------------------|---------|---------------------------------|--|
| 24 | White 3 | 0-255 | 0~100% linear | |
| 25 | Color Temperature | 0 | No Change | |
| | | 1-255 | 10000K~2700K linear change | |
| 26 | Color Macro | 000-003 | Normal | |
| | | 004-127 | Color 1~32 | |
| | | 128-131 | Sound Chase 0 | |
| | | 132-135 | Sound Chase 1 | |
| | | 136-139 | Sound Chase 2 | |
| | | 140-143 | Sound Chase 3 | |
| | | 144-147 | Sound Chase 4 | |
| | | 148-151 | Sound Chase 5 | |
| | | 152-155 | Sound Chase 6 | |
| | | 156-159 | Sound Chase 7 | |
| | | 160-163 | Sound Chase 8 | |
| | | 164-167 | Sound Chase 9 | |
| | | 168-171 | Sound Chase 10 | |
| | | 172-175 | Sound Chase 11 | |
| | | 176-179 | Sound Chase 12 | |
| | | 180-183 | Sound Chase 13 | |
| | | 184-187 | Sound Chase 14 | |
| | | 188-191 | Sound Chase 15 | |
| | | 192-195 | Auto Chase 0 | |
| | | 196-199 | Auto Chase 1 | |
| | | 200-203 | Auto Chase 2 | |
| | | 204-207 | Auto Chase 3 | |
| | | 208-211 | Auto Chase 4 | |
| | | 212-215 | Auto Chase 5 | |
| | | 216-219 | Auto Chase 6 | |
| 220-223 | Auto Chase 7 | | | |
| 224-227 | Auto Chase 8 | | | |
| 228-231 | Auto Chase 9 | | | |
| 232-235 | Auto Chase 10 | | | |
| 236-239 | Auto Chase 11 | | | |
| 240-243 | Auto Chase 12 | | | |
| 244-247 | Auto Chase 13 | | | |
| 248-251 | Auto Chase 14 | | | |
| 252-255 | Auto Chase 15 | | | |
| 27 | Color Macro Speed | 0-255 | Slow-Fast | |
| 28 | Dimmer Curve | 0 | Memory (display default values) | |
| | | 1-63 | Curve1 (/) | |
| | | 64-127 | Curve2 (S) | |
| | | 128-191 | Curve3 (J1) | |
| | | 192-255 | Curve4 (J2) | |
| Notice: Channel 11 Color Temperature must be used together with RGBW | | | | |

30 Channel :

| Channel | Function | DMX Value | Description | Remark |
|---------|----------------------|-----------|---|--------|
| 1 | Pan | 0-255 | 0 ⁰ ~540 ⁰ horizontal scanning | |
| 2 | Pan Fine | 0-255 | 0 ⁰ ~2 ⁰ horizontal scanning fine | |
| 3 | Tilt | 0-255 | 0 ⁰ ~240 ⁰ vertical scanning | |
| 4 | Tilt Fine | 0-255 | 0 ⁰ ~2 ⁰ vertical scanning fine | |
| 5 | Zoom | 0-255 | 4 ⁰ ~60 ⁰ linear | |
| 6 | Zoom Fine | 0-255 | 0 ~ 1mm fine | |
| 7 | Rotation | 0-127 | 0 ⁰ ~51 ⁰ | |
| | | 128-192 | Clockwise Fast-Slow | |
| | | 193-255 | Anti-clockwise Slow-Fast | |
| 8 | Rotation Fine | 0-255 | 0~1fine | |
| 9 | Pan/Tilt Speed | 0-255 | Speed Fast-Slow | |
| 10 | Reset | 100-109 | Smooth dimming ON | |
| | | 150-159 | Smooth dimming OFF | |
| | | 200-209 | Machine reset | |
| 11 | Dimmer | 0-255 | 0~100% Linear | |
| 12 | Strobe | 0-15 | Open | |
| | | 16-131 | Strobe Slow-Fast | |
| | | 132-139 | Open | |
| | | 140-181 | Close quickly, then, open slowly | |
| | | 182-189 | Open | |
| | | 190-231 | Close slowly, then, open quickly | |
| | | 232-239 | Open | |
| | | 240-247 | Random strobe | |
| 248-255 | Open | | | |
| 13 | Red | 0-255 | 0~100% linear | |
| 14 | Green | 0-255 | 0~100% linear | |
| 15 | Blue | 0-255 | 0~100% linear | |
| 16 | White | 0-255 | 0~100% linear | |
| 17 | Color Temperature | 0 | No Change | |
| | | 1-255 | 10000K~2700K linear change | |
| 18 | Color Changing Macro | 1-255 | 255 colors changing | |

| | | | | |
|---------|------------------------------|---------|------------------------|--|
| 19 | Color Effect Macro | 000-009 | No Effect | |
| | | 010-019 | Effect 1 | |
| | | 020-029 | Effect 2 | |
| | | 030-039 | Effect 3 | |
| | | 040-049 | Effect 4 | |
| | | 050-059 | Effect 5 | |
| | | 060-069 | Effect 6 | |
| | | 070-079 | Effect 7 | |
| | | 080-089 | Effect 8 | |
| | | 090-099 | Effect 9 | |
| | | 100-109 | Effect 10 | |
| | | 110-119 | Effect 11 | |
| | | 120-129 | Effect 12 | |
| | | 130-139 | Effect 13 | |
| | | 140-149 | Effect 14 | |
| | | 150-159 | Effect 15 | |
| | | 160-169 | Effect 16 | |
| | | 170-179 | Effect 17 | |
| | | 180-189 | Effect 18 | |
| | | 190-199 | Effect 19 | |
| | | 200-209 | Effect 20 | |
| | | 210-219 | Effect 21 | |
| | | 220-229 | Effect 22 | |
| | | 230-239 | Effect 23 | |
| | | 240-249 | Effect 24 | |
| 250-255 | Effect 25 | | | |
| 20 | Color Macro Speed | 000-63 | Static | |
| | | 064-158 | Fast to Slow | |
| | | 159-255 | Slow to Fast | |
| 21 | Color Macro Gradual Changing | 0-255 | Linear | |
| 22 | Color Foreground R | 0-255 | 0~100% linear | |
| 23 | Color Foreground G | 0-255 | 0~100% linear | |
| 24 | Color Foreground B | 0-255 | 0~100% linear | |
| 25 | Color Foreground W | 0-255 | 0~100% linear | |
| 26 | Color Foreground Dimmer | 0-255 | 0~100% linear | |
| 27 | Color Background Dimmer | 0-255 | 0~100% linear | |
| 28 | Color Foreground Strobe | 0-15 | Open | |
| | | 16-131 | Strobe Slow to Fast | |
| | | 132-139 | Open | |
| | | 140-181 | Fast open - Slow close | |
| | | 182-189 | Open | |
| | | 190-231 | Slow close - Fast open | |
| | | 232-239 | Open | |
| | | 240-247 | Radom strobe | |

| | | | | |
|---------|-------------------------|---------|------------------------|---|
| | | 248-255 | Open | |
| 29 | Color Background Strobe | 0-15 | Open | |
| | | 16-131 | Strobe Slow to Fast | |
| | | 132-139 | Open | |
| | | 140-181 | Fast open - Slow close | |
| | | 182-189 | Open | |
| | | 190-231 | Slow close - Fast open | |
| | | 232-239 | Open | |
| | | 240-247 | Radom strobe | |
| | | 248-255 | Open | |
| | | 30 | Dimmer Curve | 0 |
| 1-63 | Curve1 (/) | | | |
| 64-127 | Curve2 (S) | | | |
| 128-191 | Curve3 (J1) | | | |
| 192-255 | Curve4 (J2) | | | |

Control Instruction:

Channel 11 Color Temperature must be used together with RGBW

When CH19 value is 0-9, CH20~29 can not be controlled. When CH19 value is more than 9, CH18 can not be controlled.

Before you use CH19 effects, please adjust CH11, CH26, CH27 value first and use together with CH19.

For example, you can choose CH13~CH16 as background colors, then, choose CH22~CH25 as foreground colors, adjust CH19 to change the colors effect. And CH20 can change the speed.

81 Channels

| Channel | Function | DMX Value | Description | Remark |
|---------|----------------|-----------|---|--------|
| 1 | Pan | 0-255 | 0 ⁰ ~540 ⁰ horizontal scanning | |
| 2 | Pan Fine | 0-255 | 0 ⁰ ~2 ⁰ horizontal scanning fine | |
| 3 | Tilt | 0-255 | 0 ⁰ ~240 ⁰ vertical scanning | |
| 4 | Tilt Fine | 0-255 | 0 ⁰ ~2 ⁰ vertical scanning fine | |
| 5 | Zoom | 0-255 | 4 ⁰ ~60 ⁰ linear | |
| 6 | Zoom Fine | 0-255 | 0 ~ 1mm fine | |
| 7 | Rotation | 0-127 | 0 ⁰ ~51 ⁰ | |
| | | 128-192 | Clockwise Fast-Slow | |
| | | 193-255 | Anti-clockwise Slow-Fast | |
| 8 | Rotation Fine | 0-255 | 0~1fine | |
| 9 | Pan/Tilt speed | 0-255 | Speed Fast-Slow | |
| 10 | Reset | 100-109 | Smooth dimming ON | |
| | | 150-159 | Smooth dimming OFF | |
| | | 200-209 | Machine reset | |
| 11 | Dimmer | 0-255 | 0~100% linear | |
| 12 | Strobe | 0-15 | Open | |
| | | 16-131 | Strobe Slow-Fast | |
| | | 132-139 | Open | |

| | | | | |
|---------|----------------|---------|----------------------------------|--|
| | | 140-181 | Close quickly, then, open slowly | |
| | | 182-189 | Open | |
| | | 190-231 | Close slowly, then, open quickly | |
| | | 232-239 | Open | |
| | | 240-247 | Random strobe | |
| | | 248-255 | Open | |
| 13 | Red 1 | 0-255 | 0~100% linear | |
| 14 | Green 1 | 0-255 | 0~100% linear | |
| 15 | Blue 1 | 0-255 | 0~100% linear | |
| | | | | |
| 76 | Red 22 | 0-255 | 0~100% linear | |
| 77 | Green 22 | 0-255 | 0~100% linear | |
| 78 | Blue 22 | 0-255 | 0~100% linear | |
| 79 | Color Macro | 000-003 | Normal | |
| | | 004-127 | Color 1~32 | |
| | | 128-131 | Sound Chase 0 | |
| | | 132-135 | Sound Chase 1 | |
| | | 136-139 | Sound Chase 2 | |
| | | 140-143 | Sound Chase 3 | |
| | | 144-147 | Sound Chase 4 | |
| | | 148-151 | Sound Chase 5 | |
| | | 152-155 | Sound Chase 6 | |
| | | 156-159 | Sound Chase 7 | |
| | | 160-163 | Sound Chase 8 | |
| | | 164-167 | Sound Chase 9 | |
| | | 168-171 | Sound Chase 10 | |
| | | 172-175 | Sound Chase 11 | |
| | | 176-179 | Sound Chase 12 | |
| | | 180-183 | Sound Chase 13 | |
| | | 184-187 | Sound Chase 14 | |
| 188-191 | Sound Chase 15 | | | |
| 79 | Color Macro | 192-195 | Auto Chase 0 | |
| | | 196-199 | Auto Chase 1 | |
| | | 200-203 | Auto Chase 2 | |
| | | 204-207 | Auto Chase 3 | |
| | | 208-211 | Auto Chase 4 | |
| | | 212-215 | Auto Chase 5 | |
| | | 216-219 | Auto Chase 6 | |
| | | 220-223 | Auto Chase 7 | |
| | | 224-227 | Auto Chase 8 | |
| | | 228-231 | Auto Chase 9 | |
| | | 232-235 | Auto Chase 10 | |
| | | 236-239 | Auto Chase 11 | |
| | | 240-243 | Auto Chase 12 | |
| | | 244-247 | Auto Chase 13 | |
| | | 248-251 | Auto Chase 14 | |
| 252-255 | Auto Chase 15 | | | |

| | | | | |
|----|-------------------|---------|---------------------------------|--|
| 80 | Color Macro Speed | 0-255 | Slow-Fast | |
| 81 | Dimmer Curve | 0 | Memory (display default values) | |
| | | 1-63 | Curve1 (/) | |
| | | 64-127 | Curve2 (S) | |
| | | 128-191 | Curve3 (J1) | |
| | | 192-255 | Curve4 (J2) | |

104 Channels

| Channel | Function | DMX Value | Description | Remark |
|---------|-------------------|-----------|---|--------|
| 1 | Pan | 0-255 | 0 ⁰ ~540 ⁰ horizontal scanning | |
| 2 | Pan Fine | 0-255 | 0 ⁰ ~2 ⁰ horizontal scanning fine | |
| 3 | Tilt | 0-255 | 0 ⁰ ~240 ⁰ vertical scanning | |
| 4 | Tilt Fine | 0-255 | 0 ⁰ ~2 ⁰ vertical scanning fine | |
| 5 | Zoom | 0-255 | 4 ⁰ ~60 ⁰ linear | |
| 6 | Zoom Fine | 0-255 | 0 ~ 1mm fine | |
| 7 | Rotation | 0-127 | 0 ⁰ ~51 ⁰ | |
| | | 128-192 | Clockwise Fast-Slow | |
| | | 193-255 | Anti-clockwise Slow-Fast | |
| 8 | Rotation Fine | 0-255 | 0~1fine | |
| 9 | Pan/Tilt speed | 0-255 | Speed Fast-Slow | |
| 10 | Reset | 100-109 | Smooth dimming ON | |
| | | 150-159 | Smooth dimming OFF | |
| | | 200-209 | Machine reset | |
| 11 | Dimmer | 0-255 | 0~100% linear | |
| 12 | Strobe | 0-15 | Open | |
| | | 16-131 | Strobe Slow-Fast | |
| | | 132-139 | Open | |
| | | 140-181 | Close quickly, then, open slowly | |
| | | 182-189 | Open | |
| | | 190-231 | Close slowly, then, open quickly | |
| | | 232-239 | Open | |
| | | 240-247 | Random strobe | |
| | | 248-255 | Open | |
| 13 | Red 1 | 0-255 | 0~100% linear | |
| 14 | Green 1 | 0-255 | 0~100% linear | |
| 15 | Blue 1 | 0-255 | 0~100% linear | |
| 16 | White 1 | 0-255 | 0~100% linear | |
| | | | | |
| 96 | Red 22 | 0-255 | 0~100% linear | |
| 98 | Green 22 | 0-255 | 0~100% linear | |
| 99 | Blue 22 | 0-255 | 0~100% linear | |
| 100 | White 22 | 0-255 | 0~100% linear | |
| 101 | Color Temperature | 0 | No Change | |

| | | | | |
|---|-------------------|---------|---------------------------------|--|
| | | 1-255 | 10000K~2700K linear change | |
| 102 | Color Macro | 000-003 | Normal | |
| | | 004-127 | Color 1~32 | |
| | | 128-131 | Sound Chase 0 | |
| | | 132-135 | Sound Chase 1 | |
| | | 136-139 | Sound Chase 2 | |
| | | 140-143 | Sound Chase 3 | |
| | | 144-147 | Sound Chase 4 | |
| | | 148-151 | Sound Chase 5 | |
| | | 152-155 | Sound Chase 6 | |
| | | 156-159 | Sound Chase 7 | |
| | | 160-163 | Sound Chase 8 | |
| | | 164-167 | Sound Chase 9 | |
| | | 168-171 | Sound Chase 10 | |
| | | 172-175 | Sound Chase 11 | |
| | | 176-179 | Sound Chase 12 | |
| | | 180-183 | Sound Chase 13 | |
| | | 184-187 | Sound Chase 14 | |
| | | 188-191 | Sound Chase 15 | |
| | | 192-195 | Auto Chase 0 | |
| | | 196-199 | Auto Chase 1 | |
| | | 200-203 | Auto Chase 2 | |
| | | 204-207 | Auto Chase 3 | |
| | | 208-211 | Auto Chase 4 | |
| | | 212-215 | Auto Chase 5 | |
| | | 216-219 | Auto Chase 6 | |
| 220-223 | Auto Chase 7 | | | |
| 224-227 | Auto Chase 8 | | | |
| 228-231 | Auto Chase 9 | | | |
| 232-235 | Auto Chase 10 | | | |
| 236-239 | Auto Chase 11 | | | |
| 240-243 | Auto Chase 12 | | | |
| 244-247 | Auto Chase 13 | | | |
| 248-251 | Auto Chase 14 | | | |
| 252-255 | Auto Chase 15 | | | |
| 103 | Color Macro Speed | 0-255 | Slow-Fast | |
| 104 | Dimmer Curve | 0 | Memory (display default values) | |
| | | 1-63 | Curve1 (/) | |
| | | 64-127 | Curve2 (S) | |
| | | 128-191 | Curve3 (J1) | |
| Notice: Channel 11 Color Temperature must be used together with RGBW | | | | |

●LIBRARY

Please note the following before copying its library to the Pearl console. Because the fixture have 2 modes with 81 and 104 channels respectively, it should have several libraries and light selection areas instead of one and its libraries be copied one by one according to some order hereinafter. For a fixture with 81 channels, it is 33+21+27, and for the one with 104 channels, it is 40+36+28. For the exact copy order of the libraries, please follow the descriptions below: for a fixture with 81 channels, the copy order is 33 for light selection area #1, 21 for the light selection area #2, 27 for the light selection area #3, and so on.

6. TECHNICAL DATA

INPUT VOLTAGES: 100V~240V AC, 50/60Hz

RATED POWER : 900W 220V/50Hz

LAMP SPECIFICATIONS:

| | |
|-------------------------------|---------------------|
| OSRAM | RGBW 4in1 LED 22pcs |
| Color Temperature | 2700-10000K |
| Manufacturers Rated Lamp Life | 50000hours |

FUNCTIONS:

Front lens panel's bi-directional continuous rotation

Electronic Strobe (slowest 1time per second, fasted 25times per second)

CONTROL:

Linear focusing

Linear dimming and pixel control

Five different channel modes

14channels/27channels/29channels/80channels/103channels

Pan and Tilt

Pan 0-540 °Tilt 0-240 °

Auto-position correction

Front lens panel: bi-directional continuous rotation

Beam Angle

Beam Angle(1/2 Maximum) : 5 °~38 °

Field Angle(1/10 Maximum): 8 °~60 °

HOUSING AND IP:

IP20

Color of the housing: Black

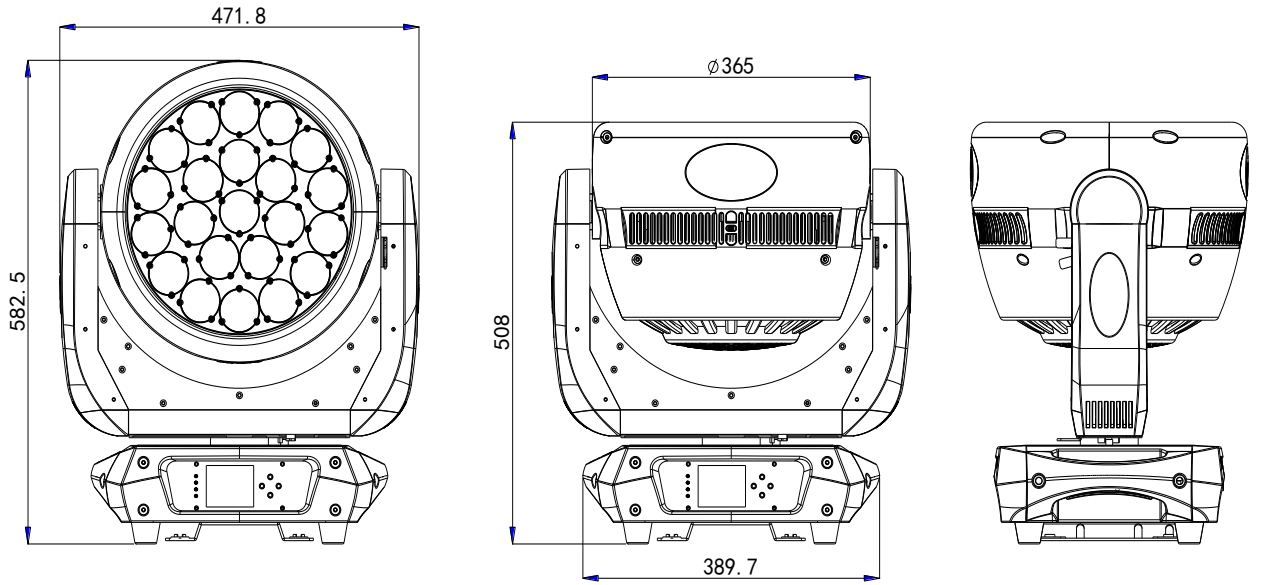
NET WEIGHT

23.6Kg

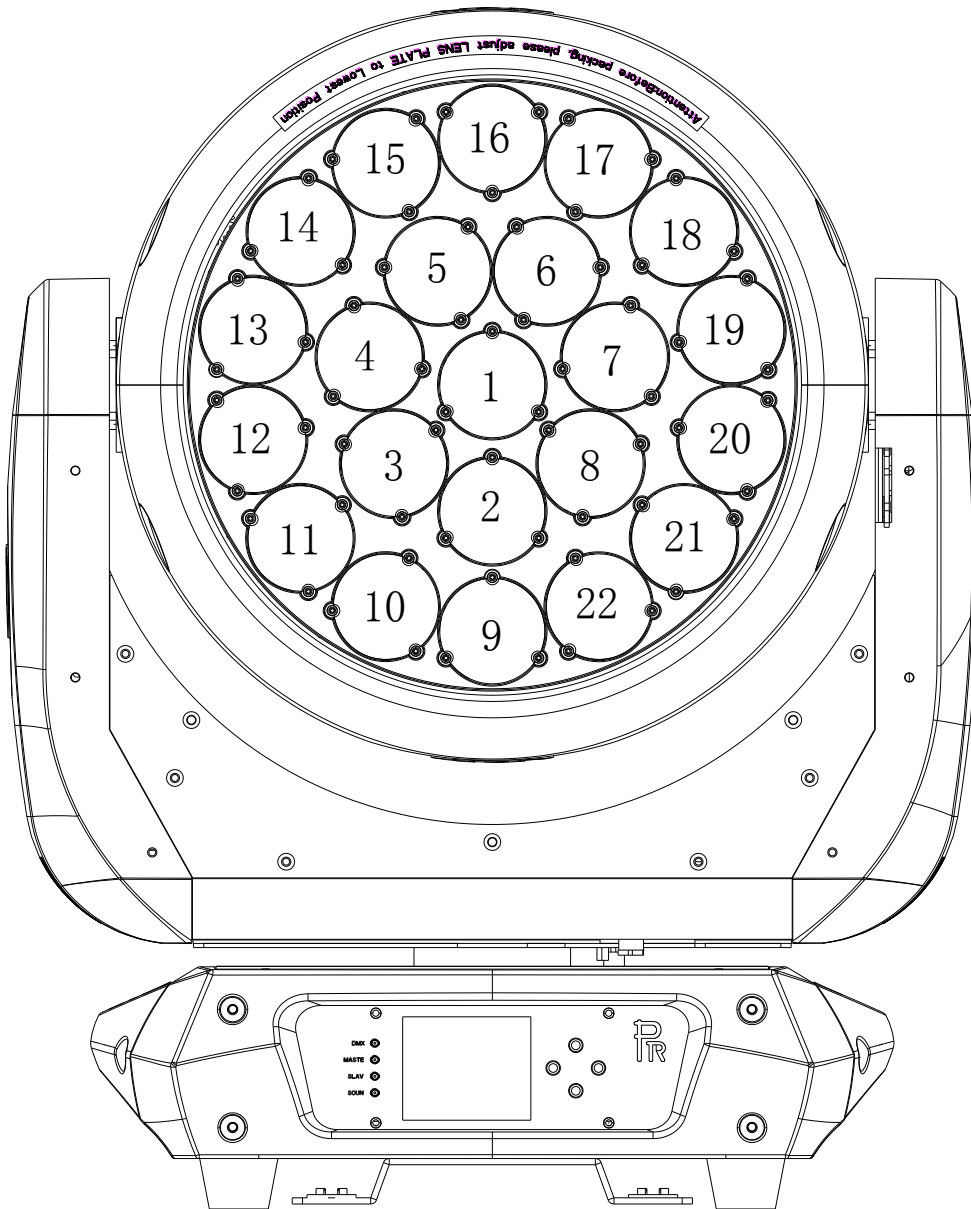
OPERATION TEMPERATURE:

-20 °C~40 °C

SIZES

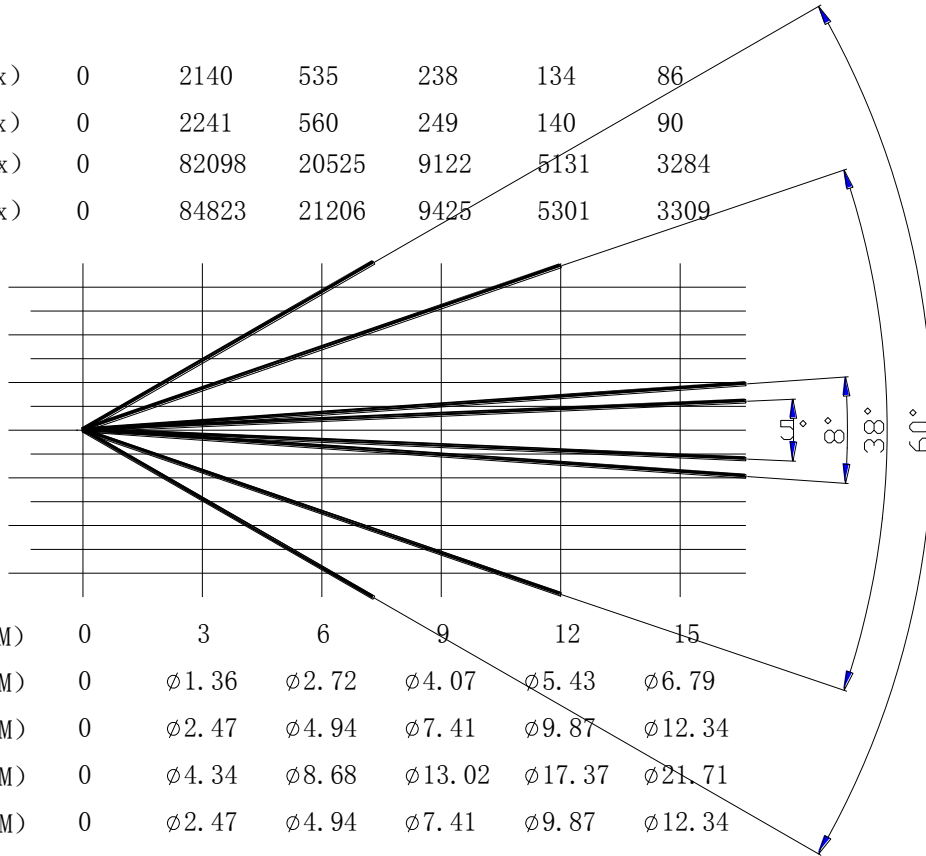


LED lamp placement



LIGHT OUTPUT:

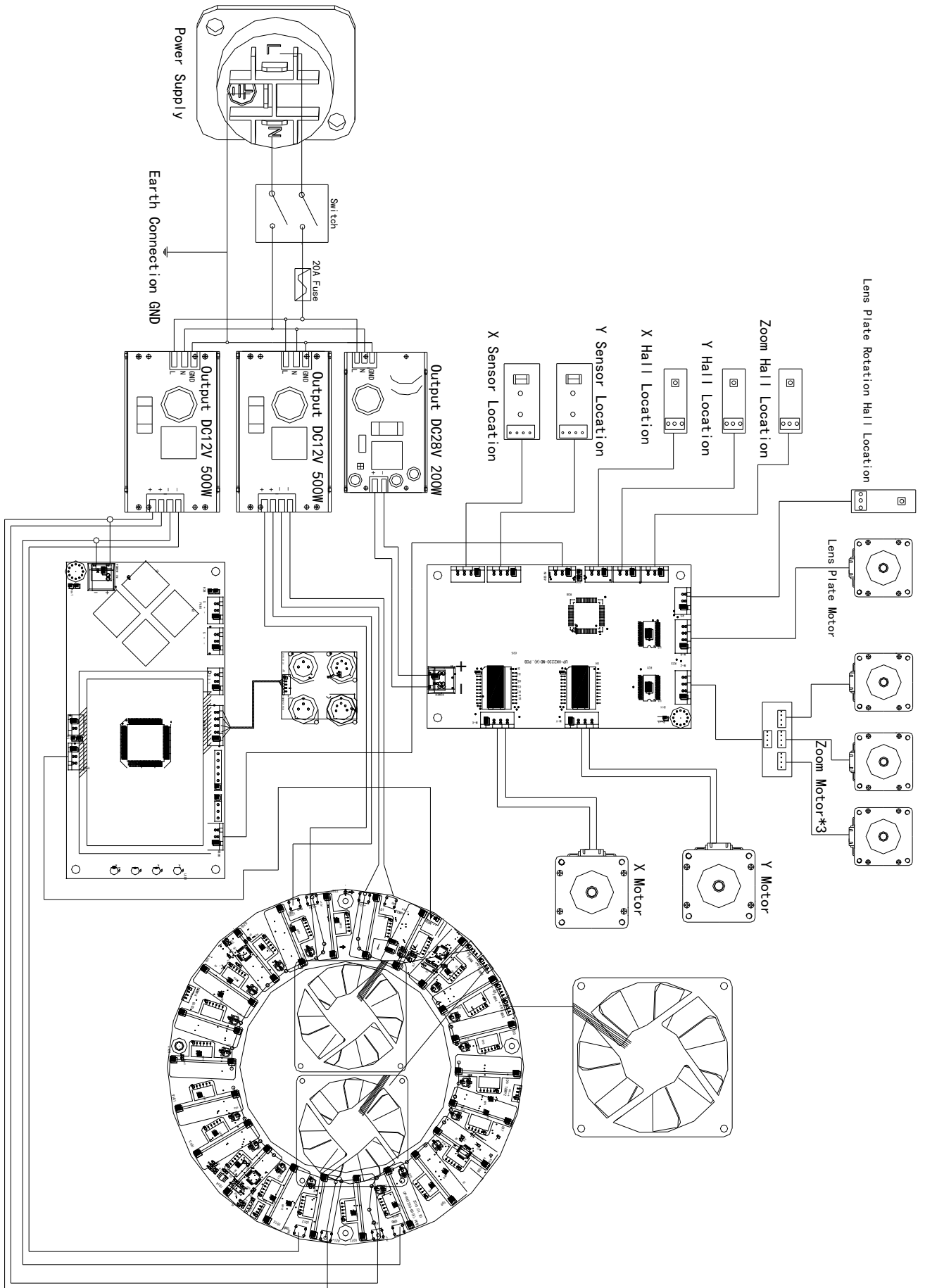
| | | | | | | |
|--------------|---|-------|-------|------|------|------|
| 60° LUX (lx) | 0 | 2140 | 535 | 238 | 134 | 86 |
| 38° LUX (lx) | 0 | 2241 | 560 | 249 | 140 | 90 |
| 8° LUX (lx) | 0 | 82098 | 20525 | 9122 | 5131 | 3284 |
| 5° LUX (lx) | 0 | 84823 | 21206 | 9425 | 5301 | 3309 |



| | | | | | | |
|------------------|---|-------|-------|--------|--------|--------|
| DISTANCE (M) | 0 | 3 | 6 | 9 | 12 | 15 |
| 5° DIAMETER (M) | 0 | ø1.36 | ø2.72 | ø4.07 | ø5.43 | ø6.79 |
| 8° DIAMETER (M) | 0 | ø2.47 | ø4.94 | ø7.41 | ø9.87 | ø12.34 |
| 38° DIAMETER (M) | 0 | ø4.34 | ø8.68 | ø13.02 | ø17.37 | ø21.71 |
| 60° DIAMETER (M) | 0 | ø2.47 | ø4.94 | ø7.41 | ø9.87 | ø12.34 |

7. CIRCUIT DIAGRAM AND PCB CONNECTIONS

.CIRCUIT DIAGRAM



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PR lighting will try its best to offer accurate and overall information about a product's technical data. Any changes won't be notified if necessary. Patented Products.
Counterfeiting Will be Prosecuted!

P/N: WQ000001
Version: 20160831 (Preliminary)