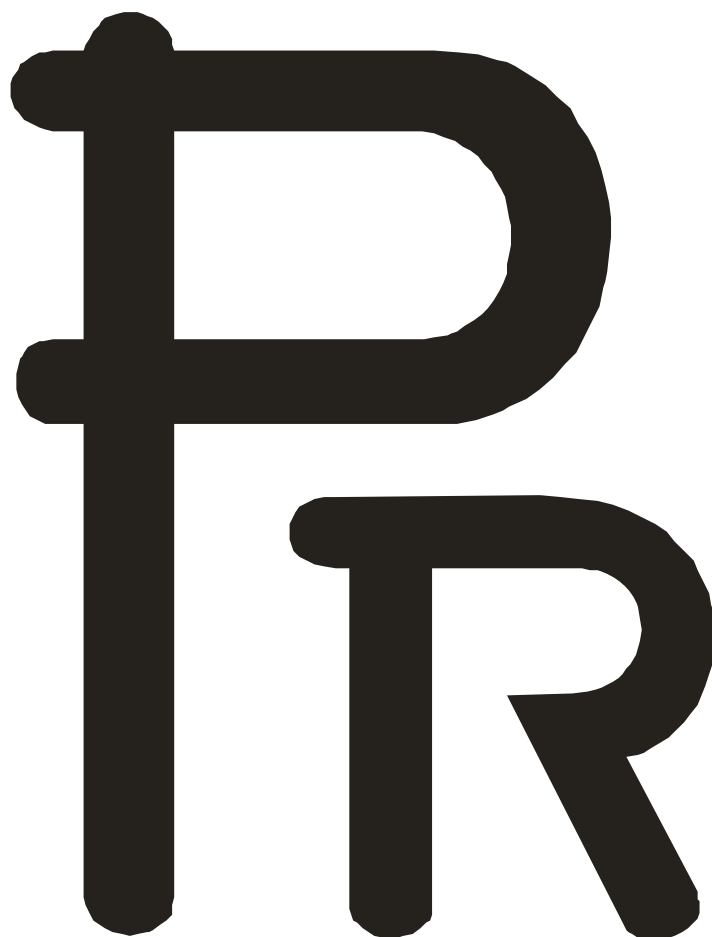




# XLED 336 BEAM

PR-8110

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

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

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Every ex-company fixture is tested completely and packed properly by the manufacturer. The use explanations and warnings in this manual must be strictly followed .Any damage caused by improper use will not be covered by the manufacturer and / or dealer.

If any technical data changes, further notice won't be offered.

## ACCESSORIES

These items are packed together with the product, please check them:

| Name             | Quantity | Unit | Remark               |
|------------------|----------|------|----------------------|
| XLR signal cable | 1        | PCS  | With plug and socket |
| Safety cord      | 1        | PCS  |                      |
| This manual      | 1        | PCS  |                      |
| G clamp          | 1        | PCS  | Standard             |
| Ω clamp          | 1        | PCS  | Optional             |
| FROST BOARD      | 1        | PCS  |                      |

## SAFETY INFORMATION AND WARNINGS

After receiving product, please unpack and check if there are any damages caused by transportation. Do not use the fixture if transportation damages occur and contact the manufacturer or the dealer as soon as possible.

The product is only for indoor use, IP20. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow its contact with water or any other liquids .

The unit is only intended for installation, operation and maintenance by qualified personnel.

The product must be installed in a location with good ventilation, at least 50cm from adjacent wall surfaces. Be sure that no fans and ventilation slots are blocked.

Do not project the beam onto inflammable surfaces, minimum distance is 1.3m.  1.3m 

Avoid looking into the light from the fixture directly (especially to **Epileptic Patients**). The light is harmful to the eye.

Do not attempt to dismantle and/or modify the product in any way.

Electrical connection must only be carried out by qualified personnel.

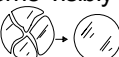
Before installation, ensure that the voltage and frequency of power supply match the power requirements of the fixture .

It is essential that each fixture is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. If the fixture is not in use or before it being cleaned, please hold the plug and unplug the power cord . Never pull out the plug by tugging the power-cord.

The fixture should always be installed with a secondary safety fixing. A safety cord is supplied for this; it should be attached as shown in "installing the unit" section. At the back cover of the base, there is a safety hole for the safety cord, for safety installation, please run the safety cord supplied with the fixture through the safety hole to support the safe installation.

Shields and lens shall be changed if they have become visibly damaged to such an extent than their effectiveness is impaired, for example by cracks or deep scratches. 

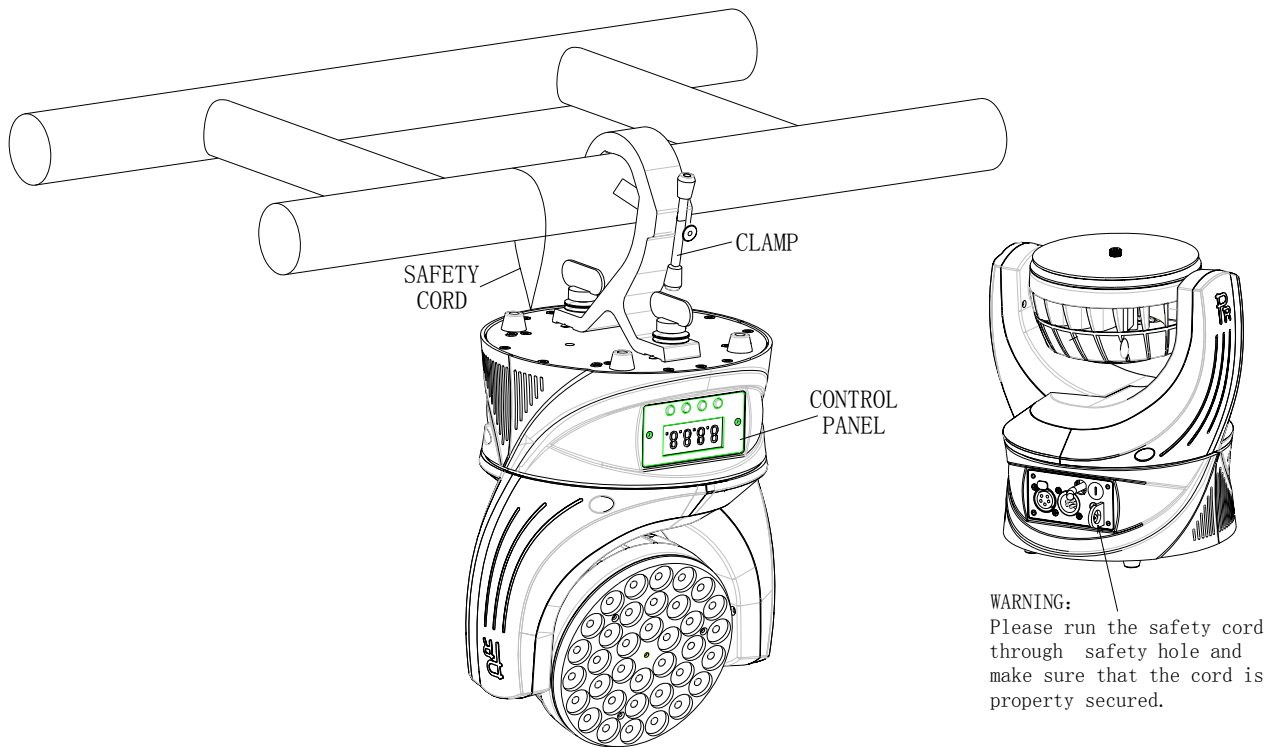
Exterior surface temperatures of the luminaire after 5 minutes operation is 45°C, when steady, it achieves 50°C,

There is no user repairable parts inside the fixture, do not open the housing and never operate the unit with the covers removed. Before the use of the fixture, please check if the covers are fixed well and all screws are fastened.

If any questions, don't hesitate to consult your dealer or the manufacturer.

**Important: Always disconnect from Power Supply, when the device is not in use or before cleaning or any maintenance work!**

## PRODUCT INSTALLATION



Take 1 clamp and 1 the safety cord out from the package and mount 1 clamp on the BOTTOM of fixture with 2 retainers attached to the clamp. Hang the fixture on the steel truss and fasten the retainers attached to the clamp. Always ensure that the location that you are going to mount the unit is secure and is strong enough to support the weight of the unit (See the **WARNING** as shown above) **To pass SAFETY CORD through the SAFETY HOLE on the back cover of the base of the fixture for safety!** Always ensure that the unit is firmly anchored to avoid vibration and slipping whilst functioning.

### WARNING:

1. The unit **MUST** be lifted or carried by the **HANDLES** instead of clamps.
2. For safety the safety cord should bear 10 times of the unit's weight .

## POWER SUPPLY CONNECTIONS

Connect the power cord as follows:

- L (live) =brown
- E (earth) =yellow/green
- N (neutral) =blue

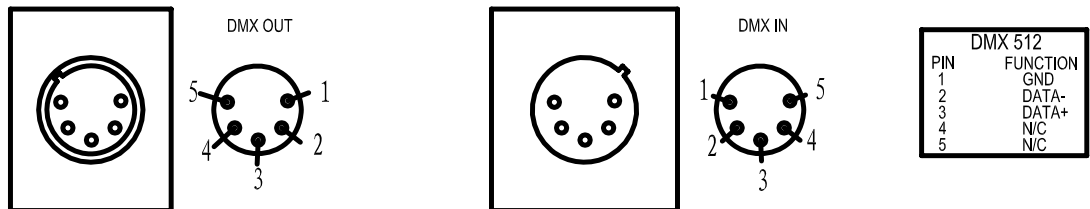
Please be advised to notice power supply's voltage and frequency meet what are described on the nameplate of the product. It is recommended that each unit be power connected separately so that they may be individually switched on and off.

### IMPORTANT

It is essential that each unit(yellow/green twin wire) is correctly earthed and the electrical installation conforms to all relevant standards.

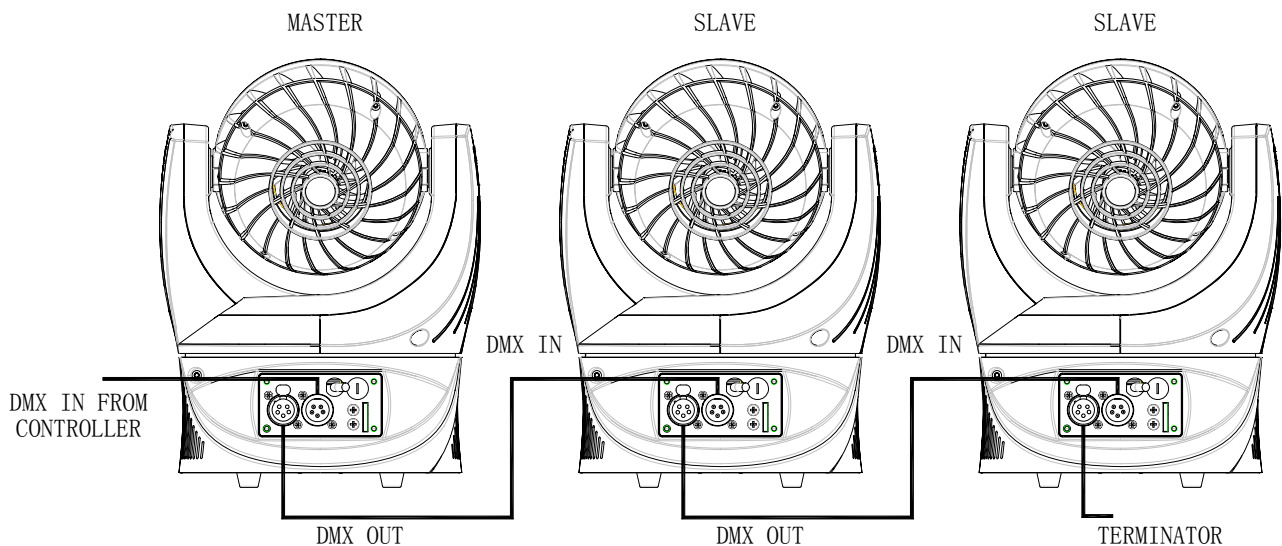
## DMX CONTROL CONNECTION

5-PIN



Connection between controller and unit and between one unit and another must be made with a 2 core-screened cable, with each core having at least a 0.5mm diameter. Connection to the DMX512 input and output ports of the unit is via 5 pin XLR plugs and sockets(which are included with the unit). The XLR's plugs and sockets are connected with wires 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's plug and socket must not be connected with XLR control wire in any way other than shown as above. The fixture accepts digital control signals in protocol DMX512 (1990).

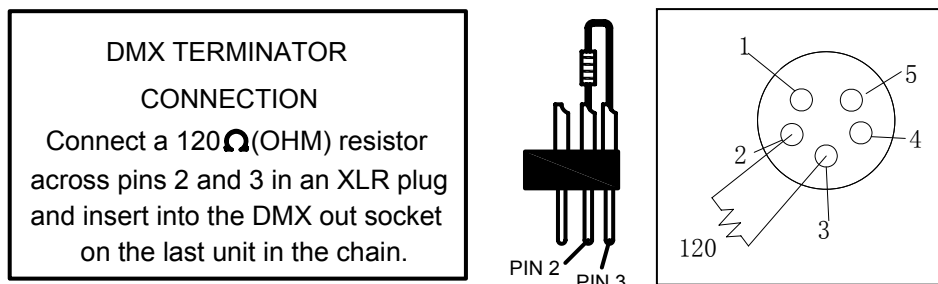
Connect the controller's output to the first fixture's input, and connect the first fixture's output to the second fixture's input and connect the rest fixtures in the same way. Eventually connect the last fixture's output to a DMX terminator as shown in the figure below.



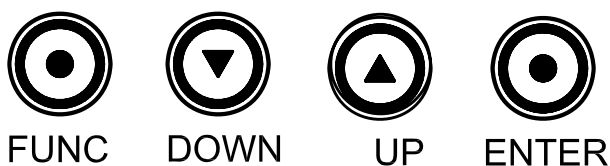
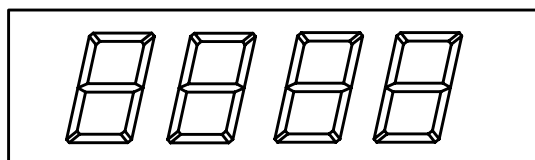
## DMX TERMINATOR

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 DMX512 control signals.

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



## PRODUCT FUNCTION SETUP



Fixture's address and function code configuration can be set conveniently via button switch and LCD display. Press button **ENTER** more than 5 seconds to unlock panel. LED display shows the fixture's function menu. Each Option of the main menu has its own sub-menu. Each menu stands for specified function of the fixture, please see the details in the following:

Press button **UP** or **DOWN** if you want to set or browse through the various Setup Options.

Press button **ENTER** to save your settings or enter the sub-menus.

Press button **UP** or **DOWN** to change the parameters(increase or decrease the numbers)

Press button **FUNC**, it will return to the upper menu one by one. If the button not pressed, the system will go back to display status automatically.

## TO SET THE DMX START ADDRESS

If many fixtures are controlled by the controller, each fixture should be set with a start address to receive signals sent by the controller and respond to it. The fixture have 2 DMX modes. There are standard mode and extended mode For example standard mode has 12 channels, so set the No. 1 Fixture's address 001, No. 2 Fixture's address 013, No. 3 Fixture's address 025 and so on.

Switch on the Fixture. Press button **ENTER** more than 5 seconds to unlock panel.

Press button **FUNC** to display **DMX address**;

Press button **UP** and **DOWN**, you can set the address;

Press button **ENTER** to confirm; when powered on next time, it will show the latest number you saved.

Press button **FUNC**, it will return to the upper menu one by one.

## STAND-ALONE MODE

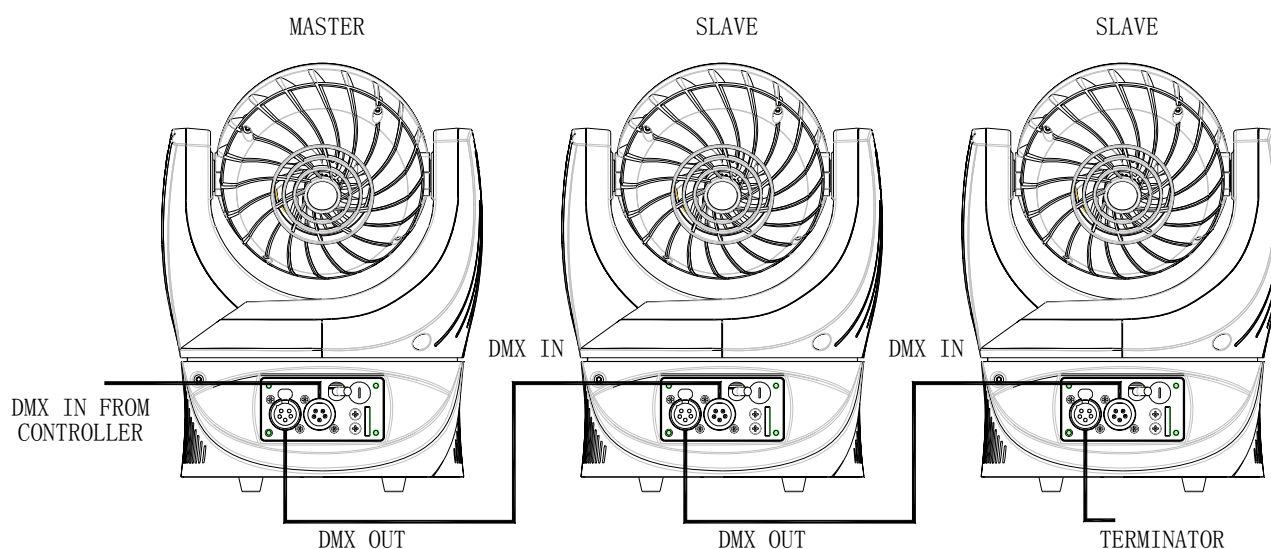
Operate the fixture without connecting a controller, enable the master mode in the operation panel, the fixture will run in Stand-Alone mode automatically.

## MASTER/SLAVE MODE

If many fixtures are connected under Master/Slave mode, use XLR-XLR control cable to connect the first fixture's DMX output port with the second fixture's DMX input port, then to connect the second fixture's output port with the third fixture's input port and so on until all the fixtures are connected, the last thing is to plug the terminator at the last fixture's output port. In this case, the first fixture is the master, others are slaves

Set the master's address at 001, Master can be set at any mode(STD mode or extended mode) and slave should be set at same mode as the master's.

After powered on, the group will run under Master/Slave mode.



# OPERATION MENU

| 1st LEVEL               | 2nd LEVEL                                           | 3rd LEVEL                                                  | 4th LEVEL |
|-------------------------|-----------------------------------------------------|------------------------------------------------------------|-----------|
| AddR<br>DMX Address     | XXX<br>(XXX:1~512)                                  |                                                            |           |
| CNFG<br>Config Settings | dmX<br>DMX mode<br>(Default is: STd)                | STd<br>Standard mode                                       |           |
|                         |                                                     | EXT<br>Extended mode                                       |           |
|                         | dISP<br>Display settings<br>(Default is: ON)        | ON                                                         |           |
|                         |                                                     | OFF<br>digital CRT off if buttons not pressed in 5 minutes |           |
|                         | xyCH<br>Pan Tilt Swap (Default is OFF)              | OFF<br>Pan Tilt Swap off                                   |           |
|                         |                                                     | ON<br>Pan Tilt Swap on                                     |           |
|                         | xyCP<br>Pan Tilt Invert (Default is OFF)            | OFF<br>Pan Tilt Invert off                                 |           |
|                         |                                                     | ON<br>Pan Tilt Invert on                                   |           |
|                         | mORS<br>Master/Slave Settings<br>(Default is slave) | SLAV<br>Slave Mode                                         |           |
|                         |                                                     | mAST<br>Master Mode                                        |           |
|                         | FACT<br>Factory Defaults                            | yES                                                        |           |
|                         | TRmd(1)<br>Transmit parameters                      | yES                                                        |           |
| INFO<br>(Information)   | TImE<br>(Fixture usage time)                        | XXXX<br>Fixture usage time showed                          |           |
|                         | VER<br>(Software version)                           | X.X.X<br>Software Version No.                              |           |
|                         | TEmP<br>温度                                          | X.X.<br>LED lamp PCB temp showed                           |           |
|                         | Lamp<br>LED Lamp I                                  | OFF(shut off)                                              |           |
|                         |                                                     | R (red)                                                    |           |
|                         |                                                     | G (Green)                                                  |           |
|                         |                                                     | B (Blue)                                                   |           |
|                         |                                                     | RG (Yellow)                                                |           |
|                         |                                                     | GB (cyan)                                                  |           |
|                         |                                                     | RB (purple)                                                |           |
|                         |                                                     | RGB(White)                                                 |           |
|                         | Pan                                                 | 0-255 540°                                                 |           |
|                         | TILT                                                | 0-255 270°                                                 |           |
| TEST<br>(test mode)     |                                                     |                                                            |           |
|                         |                                                     |                                                            |           |
|                         |                                                     |                                                            |           |
|                         |                                                     |                                                            |           |
|                         |                                                     |                                                            |           |
|                         |                                                     |                                                            |           |



|                        |                                              |                          |                      |
|------------------------|----------------------------------------------|--------------------------|----------------------|
|                        | P*TS<br>Pan/Tilt speed                       | 0-255 Pan/Tilt speed     |                      |
|                        | RESE<br>Reset                                | YES                      |                      |
| mENU<br>Operation Mode | dmx<br>DMX mode                              |                          |                      |
|                        | PRUN<br>Run preset memory                    |                          |                      |
|                        | ERUN<br>Run user program                     |                          |                      |
|                        | ET XX<br>User memory from<br>(ET 01 to ET16) | CH01<br>Strobe           | 0-255                |
|                        |                                              | CH02<br>Red Dimming      | 0-255                |
|                        |                                              | CH03<br>Greening Dimming | 0-255                |
|                        |                                              | CH04<br>Blue Dimming     | 0-255                |
|                        |                                              | CH05<br>Pan              | 0-255                |
|                        |                                              | CH06<br>Tilt             | 0-255                |
|                        |                                              | CH07<br>Pan/Tilt Speed   | 0-255                |
|                        |                                              | CH15<br>Scene hold time  | 0-255<br>Time=X*40mS |

**Remark:**

1. In the synchronous control of multiple fixtures, parameters can be transmitted from the master includes: DMX mode, display setting, operation mode(Including user memory);

| DMX Protocol  |               |                  |           |                                    |
|---------------|---------------|------------------|-----------|------------------------------------|
| Standard Mode | Extended Mode | Function         | DMX Value | Description                        |
| 1             | 1             | Dimmer           | 000-255   | Linear dimming from dark to bright |
|               | 2             | Dimmer<br>16 Bit | 000-255   | Linear dimming from dark to bright |
| 2             | 3             | Macro            | 0         | Nil                                |
|               |               |                  | 001-031   | Red                                |
|               |               |                  | 032-063   | Green                              |
|               |               |                  | 064-095   | Blue                               |
|               |               |                  | 096-127   | Yellow                             |
|               |               |                  | 128-159   | Cyan                               |
|               |               |                  | 160-191   | Purple                             |

|    |    |                |         |                                    |
|----|----|----------------|---------|------------------------------------|
|    |    |                | 192-223 | White                              |
|    |    |                | 224-255 | Red & White                        |
| 3  | 4  | Red            | 000-255 | Linear dimming from dark to bright |
| 4  | 5  | Green          | 000-255 | Linear dimming from dark to bright |
| 5  | 6  | Blue           | 000-255 | Linear dimming from dark to bright |
|    | 7  | Hue            | 000-255 | Hue Options                        |
|    | 8  | Saturation     | 000-255 | Saturation from light to dark      |
|    | 9  | Brightness     | 000-255 | From Dark to Bright                |
| 6  | 10 | Strobe         | 0       | Nil                                |
|    |    |                | 001-255 | Strobe speed from slow to fast     |
| 7  | 11 | Pan            | 000-255 | Pan 540°                           |
| 8  | 12 | Pan 16 Bit     | 000-255 | Pan 16 bit Precision Rotation      |
| 9  | 13 | Tilt           | 000-255 | Tilt 270°                          |
| 10 | 14 | Tilt 16 Bit    | 000-255 | Tilt 16 Bit precision rotation     |
| 11 | 15 | Pan/Tilt Speed | 000-255 | From slow to fast                  |
| 12 | 16 | Control        | 000-048 | Reserved                           |
|    |    |                | 049-255 | Reset                              |

## INDICATION OF LED DIGITAL TUBE

|                                           |       |                                                  |
|-------------------------------------------|-------|--------------------------------------------------|
| Decimal point of the first digital tube   | On    | DMX signal OK                                    |
|                                           | Off   | No DMX signal                                    |
| Decimal point of the third digital tube   | On    | Master / slave signal is OK                      |
|                                           | Off   | No master / slave signal                         |
| Decimal point of the fourth digital tube  | On    | When setting master mode                         |
|                                           | Off   | When setting slave mode                          |
| Parameters that LED digital tubes display | Flash | Parameters not saved, press "ENTER" to save them |

## MAINTENANCE

If the Fixture does not function, check if the fuses on the power socket of the unit is broken or not, if broken, they should only be replaced by fuses of the same specification. Should there be damaged call a qualified technician before replacement. The fixture has thermal protection device that will switch off the unit in case of overheating. Should any case like this happen, check if the fans work well or fans and fan screens are blocked, restart the fixture before the problems have been found and resolved.

**Any maintenance work should only be carried out by qualified technicians.**

## PRODUCT CLEANING

To ensure the reliability of the fixture it should be kept clean. It is recommended that the fans should be cleaned every 15 days. The lens should also be regularly cleaned to maintain an optimum light output. **Do NOT use any type of solvent containing chemical elements.**

Cleaning intervals depends on the environment in which the fixture operates and use frequency. A soft cloth and typical glass cleaning products should be used in cleaning the fixtures. It is recommended to clean the external optical system at least once every 20 days.

**Do not use any organic solvent, e.g. alcohol, to clean the housing of the apparatus to avoid damages**

## TROUBLE SHOOTING

| PROBLEM                                                                 | ACTION                                                                                                                                                                       |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The fixture can not start                                               | <ul style="list-style-type: none"><li>➤ Check if the fuse on the power socket is broken or not .</li><li>➤ Check the status of the fuse</li></ul>                            |
| The lamp works normal but the fixture doesn't respond to the controller | <ul style="list-style-type: none"><li>➤ Check if the fixture's start address is set properly</li><li>➤ Check if XLR signal cable is broken or not</li></ul>                  |
| The fixture only functions intermittently                               | <ul style="list-style-type: none"><li>➤ Make sure the fans work normally and if dirt blocks fans and fan screens.</li></ul>                                                  |
| The beam appears dim and brightness decreases apparently                | <ul style="list-style-type: none"><li>➤ Check if the lamps reach the end of their lives</li><li>➤ Check if external and internal optical systems are clean or not.</li></ul> |

## TECHNICAL DATA

### LIGHT SOURCE:

OSRAM OSOLON 3W(12R+12G+12B)

### VOLTAGES:

90~264VAC 50/60HZ

### POWER CONSUMPTION:

140W@220V

### COLOR SYSTEM:

RGB color mixing system

2700K~10000K

**DIMMER:**

0-100% linearly adjustable

**STROBE:**

Electronic strobe, 0.3~20 F.P.S

**HEAD MOVEMENT:**

Pan 540°, Tilt 270°;

Pan Tilt Swap and Invert Function

**LENS ANGLE:** 8°

|                                            |                                  |     |
|--------------------------------------------|----------------------------------|-----|
| <b>FIELD ANGLE (Without Frost board) :</b> | (One-tenth-peak luminance angle) | 17° |
| <b>BEAM ANGLE (Without Frost board) :</b>  | (Half-peak luminance angle)      | 8°  |
| <b>FIELD ANGLE (With Frost board) :</b>    | (One-tenth-peak luminance angle) | 32° |
| <b>BEAM ANGLE (With Frost board) :</b>     | (Half-peak luminance angle)      | 16° |

**CONTROL:**

DMX512, 5 pin interfaces

12channels in standard mode, and 16channels in extended mode.

Master/slave mode

Stand-alone mode

Built-in mode

**OTHER FUNCTIONS:**

Adjustable Pan & Tilt speed

Fixture usage time display

Software version display

Modular structure for easy maintenance

**HOUSING:**

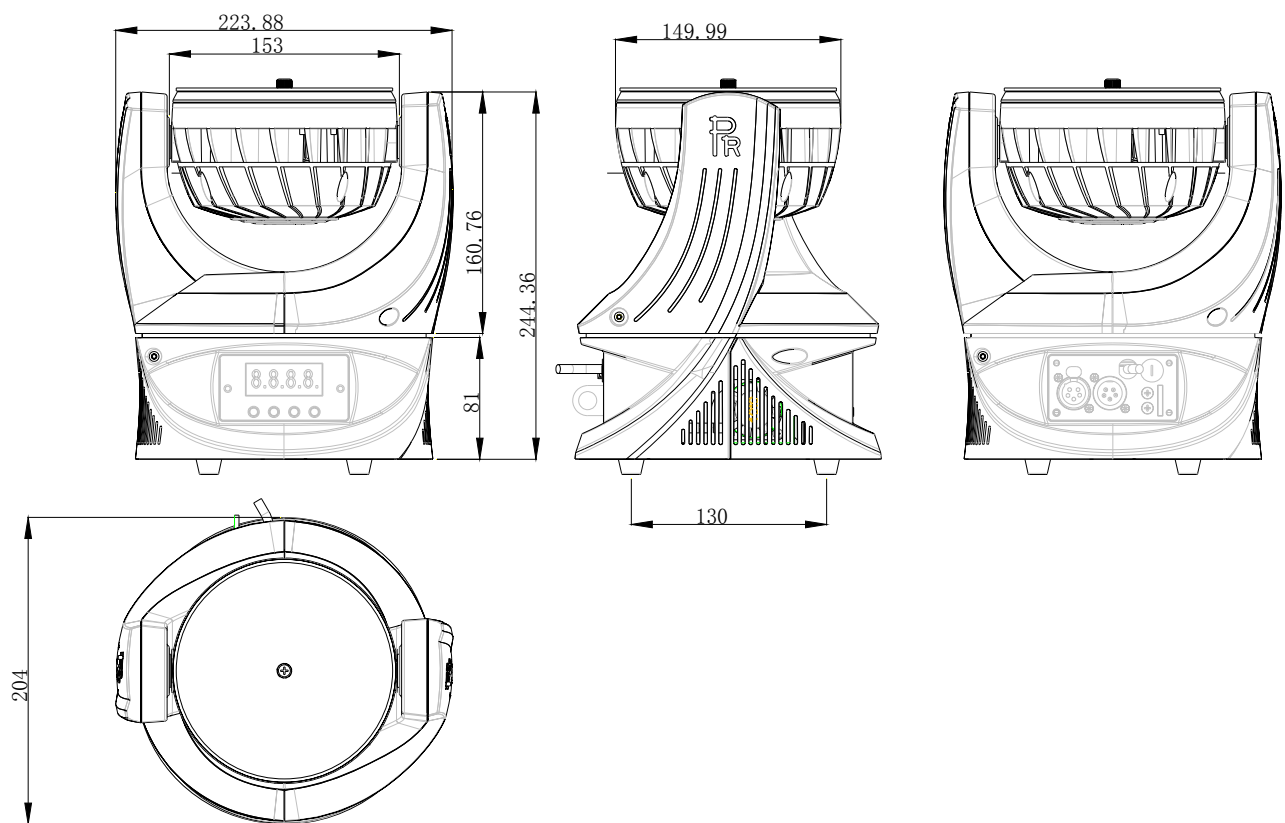
High temperature engineering-plastic, IP20

**WEIGHT:**

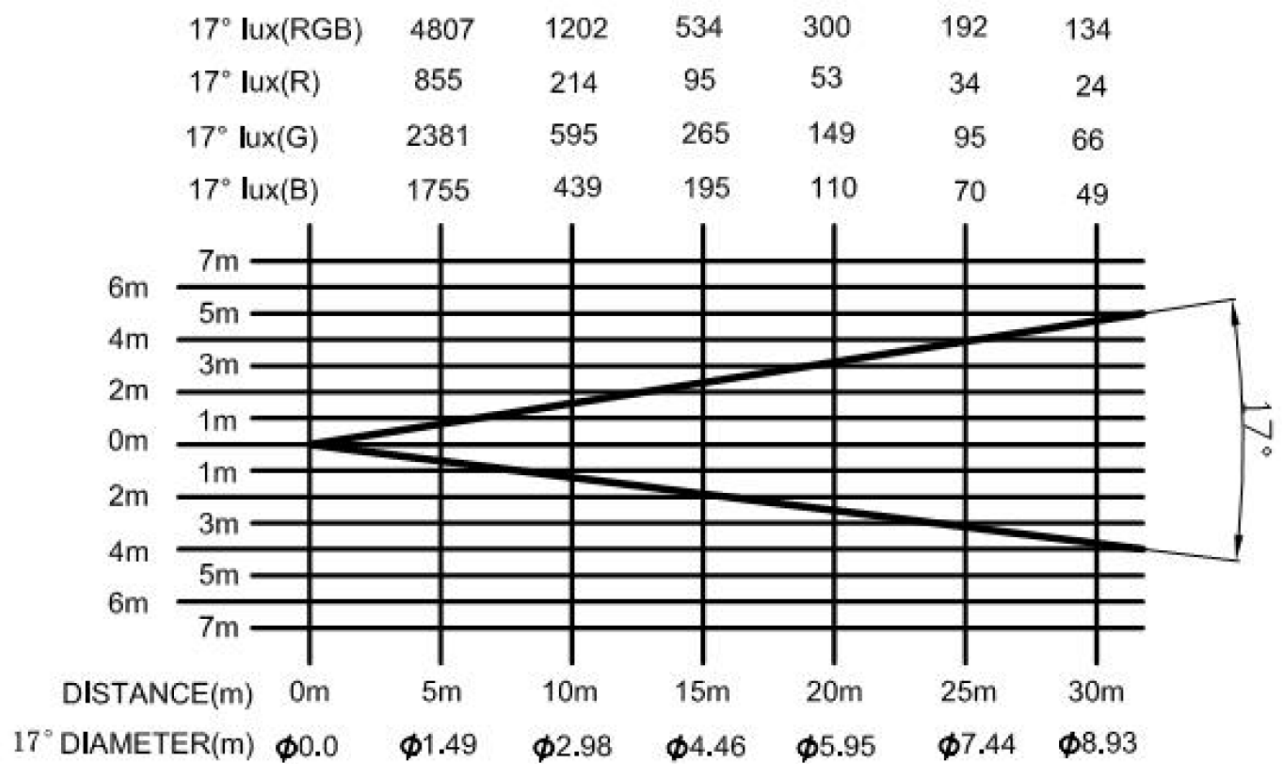
4.2Kg

**SIZES:**

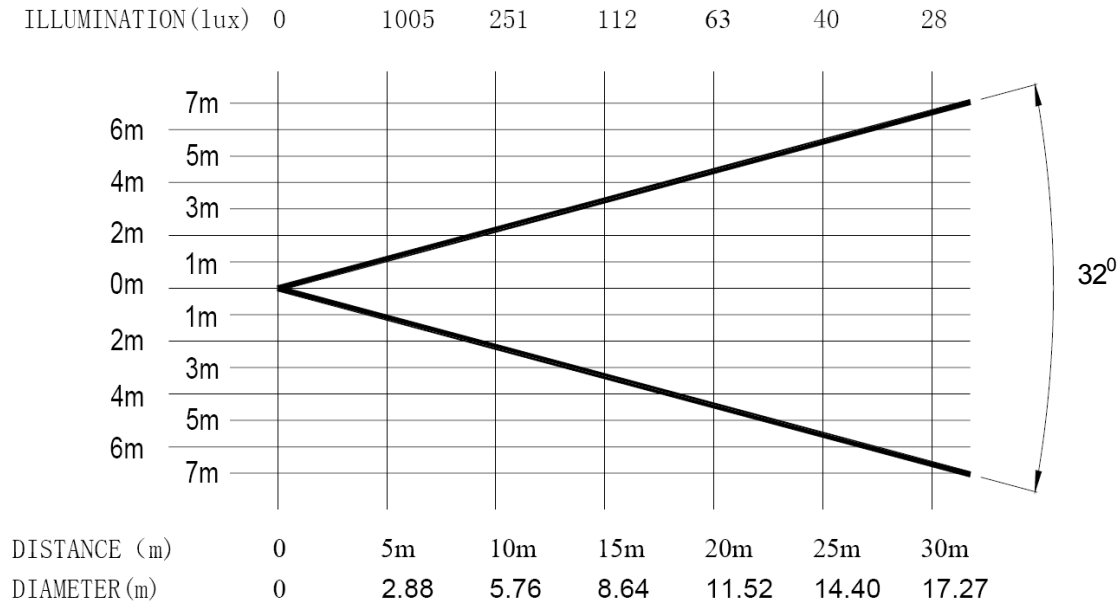
See at below



#### LIGHT OUTPUT (WITHOUT FROST BOARD):



**LIGHT OUTPUT (WITH FROST BOARD):**



**COMPONENT ORDER CODES**

| NAME              | PART NO.  | QUANTITY | REMARK           |
|-------------------|-----------|----------|------------------|
| POWER SUPPLY      | 192010150 | 1 PCS    | 90-264V AC/3.0 A |
| LED ( RED COLOR)  | 150020217 | 12 PCS   | 3Wx12            |
| LED ( BLUE COLOR) | 150020218 | 12 PCS   | 3Wx12            |
| LED (GREEN COLOR) | 150020219 | 12 PCS   | 3Wx12            |
| LENS              | 070070011 | 1 PCS    |                  |
| FUSE              | 270041037 | 1 PCS    | 5x20 3.15A       |
| TILT/PAN BELT     | 290151337 | 2 PCS    | HTD-3M-297       |
| FAN               | 030060069 | 1 PCS    | 24V, ME70202VI   |
| FAN               | 030060070 | 1 PCS    | 24V, AD0424HB    |
| PAN/TILT MOTOR    | 030040170 | 2PCS     |                  |
| LED DRIVER PCB    | 230060106 | 1 PCS    |                  |
| LED PCB           | 230060107 | 1 PCS    |                  |
| PAN AND TILT PCB  | 230060116 | 1 PCS    |                  |
| DISPLAY PCB       | 230060117 | 1 PCS    |                  |
| FROST BOARD       | 120110365 | 1 PCS    |                  |

## CIRCUIT DIAGRAM



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