

CUBIX300

PR-6803

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 |
|----------------|----------|------|--------|
| Clamp | 1 | Pc | |
| Power cord | 1 | Pc | |
| XLR loop cable | 2 | pcs | |
| Safety cord | 1 | Pc | |
| User manual | 1 | Pc | |

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.








Any future technical change in the user manual won't be with any further notice.

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

| | |
|---|---|
|  | <h2 style="margin: 0;">NOTE</h2> <p style="margin: 0;">Before a projector's installation, power-on, operation and maintenance, please carefully read the safety information hereinafter!</p> |
|---|---|

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 unit can be used indoors and outdoors with IP65.
- 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 a projector to any type of dimmer pack.
- If the lamp, lens and screen protective cover of the a projector have obvious damage, i.e., to the extent that it hurts the performance like cracking or deformation. Please stop using it and replace them with the original parts, otherwise its performance will be compromised.
- For the installation location of a projector, it shouldn't be seen in the distance of less than 4 meters for a long time.



- 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
- 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.



- While the ambient temperature is stable, the highest temperature of the housing will be 70°C
- While operated, do not touch the metallic housing. It is very hot during operation.



- 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 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.
- Do not let the front lens under sunlight or other strong light sources at any angle, otherwise the danger of fire can be caused by the focused beam by the lens inside a projector.

2. INSTRUCTIONS

•CLEANING AND MAINTENANCE

For the units with optical lens, because of the accumulation of the smoke, oil and dust on lens, the light output will be compromised. For the reliable use of the unit, it is very necessary to keep it clean. The unit is IP65 rating waterproof device. Unless approval by some professional technician for necessary internal component replacement, it's forbidden to dismantle the unit.

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. 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.

•TROUBLESHOOTING

| PROBLEM | ACTION |
|---|---|
| The projector doesn't switch on | <ul style="list-style-type: none"> ➤ Check the power cord connection ➤ Power Switch fails or is not connected well, call a professional technician for repairing and checking ➤ Control board is not connected normally, call a professional technician for repairing and checking , |
| The project can be turned on, but the LED lamps can't be on | <ul style="list-style-type: none"> ➤ LED lamp board is not connected well, call a professional technician for repairing and checking |
| The LED lamps can be on, but not controlled by DMX | <ul style="list-style-type: none"> ➤ Check if DMX Start Address is properly set ➤ Check if XLR cable fails or not |
| The brightness decreases obviously | <ul style="list-style-type: none"> ➤ Ambient temperature is too hot which makes the projector too hot, please take appropriate ventilation measures |

3. INSTALLATION

●PLACE A UNIT ON A FLAT SURFACE

Before placing a unit on a flat surface, loosen the small knob with the support and make the angle between the arm and the support 60degrees. Tighten the small knob. Loosen he big knob and adjust the angle between the arm and unit as desired and then tighten it.(if the version is with wireless control, the antenna should face up if the fixture is placed on flat surface)

●TRANSPORTATION

Before transportation, tighten both knobs after the arm and support are overlapped.



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 POWER IN 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.

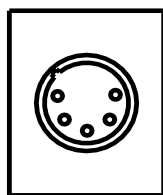


•The earth wire(yellow/green) must be connected to the ground. And electrical connection must be in accordance with the standards concerned.

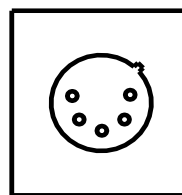
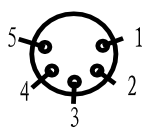
•If any questions about the electrical installation, do not continue but consult a qualified electrician.

●DMX CONTROL CONNECTION

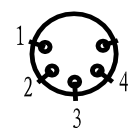
5-PIN



DMX OUT



DMX IN

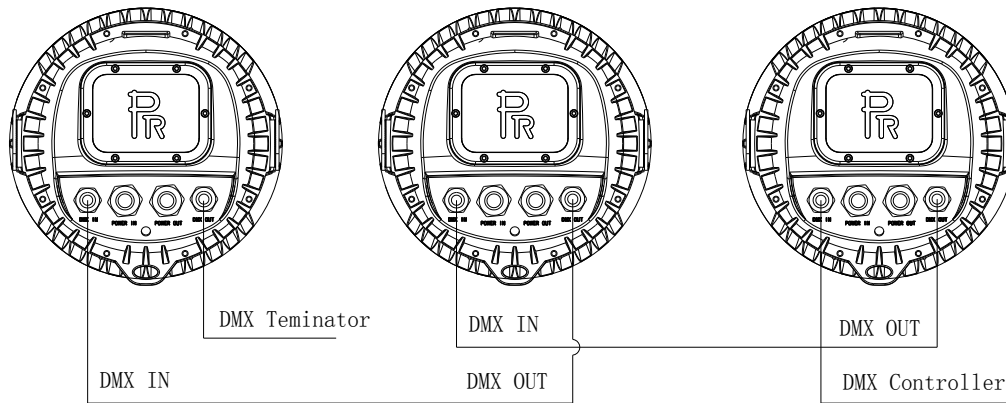


| DMX 512 | |
|---------|----------|
| PIN | FUNCTION |
| 1 | GND |
| 2 | DATA- |
| 3 | DATA+ |
| 4 | N/C |
| 5 | N/C |

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 unit accepts digital control signals in protocol DMX512 (1990).

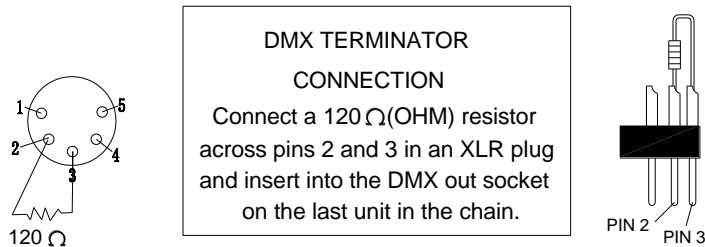
Connect the controller's DMX output to the first fixture's DMX input, and connect the first fixture's DMX output to the second fixture's DMX input and connect the rest fixtures in the same way. Eventually connect the last fixture's DMX output to a DMX terminator as shown in the figure below.



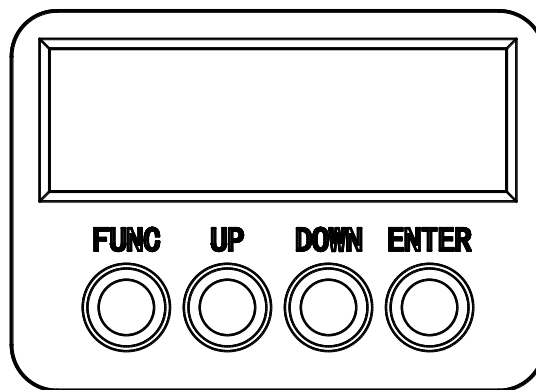
●DMX TERMINATOR

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.



4. SETUP AND CONFIGURATION



●FRONT PANEL OPERATION

To browse through or modify the projector's functions, press key **ENTER** for more than 3 seconds to unlock the control panel and enter the menus. To set or browse through the projector's functions, press key **UP** or **DOWN**. Press the key **ENTER** to enter the submenus and the current parameters will be displayed while flashing. Press key **UP** or **DOWN** to change values (plus or minus). Press key **ENTER** to save your changes and enter into the upper level menu while flashings stop; Press key **FUNC**, it will return to the upper menu (parameters not saved) or browse through 1st level menus; Press key **FUNC** for 1 second or none key is pushed for 1 minute, the menu will be escaped and current operation mode displayed.

●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 Unit has 1 DMX mode. For example standard mode has 9 channels, so set the No. 1 projector's address 001, No. 2 projector's address 010, No. 3 projector's address 019, No. 4 projector's address 028, and so on.

Launch the projector. Press button **ENTER** more than 3seconds to unlock panel.

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

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

Press button **ENTER** to confirm; after powered on next time, the default will be last value saved

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

If DMX signal is available, LED indication is on. Otherwise it is off.

●WIRELESS CONTROL OPERATION

The optional version of the projector has wireless control function with DMX wireless receiver module and DMX wireless antenna for remote control.

The operation details are as follows:

1. Enter into the menu, then enter into "Config Set" after **UP** or **DOWN** is pushed;
2. Select "Wireless mode" → "Wireless first" (Note: do not select "XLR only"); Then the wireless control is activated. Only after the project and wireless transmitter are connected, can it receive wireless signal. If wireless control is deactivated, press "Yes" under "Unlink wireless" under "config Set". Then the projector will disconnect 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.

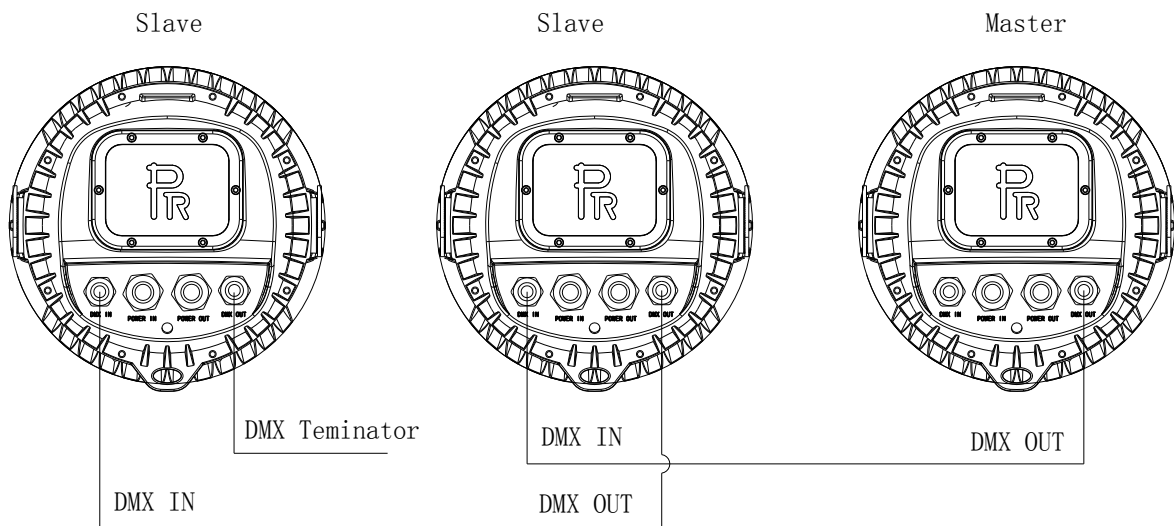
DMX address can be set at any number within 512.

●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 1st 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



5. OPERATION MENU

| 1 st level menu | 2 nd level menu | 3 rd level menu | 4 th level menu |
|----------------------------|---|----------------------------|--|
| Address | 001 - 512 | | DMX Address |
| Config Setup | MasterSlave | Slave | Default: Slave |
| | | Master | |
| | Language Setup | English | Default: English |
| | | Chinese | |
| | Lcd Light Setup | On | Backlight will be off 3mintues after no key is pushed. |
| | | Off | |
| | Display Invert | Yes | |
| | | No | |
| | Factory Setting | Yes | |
| | PRM Transmit | Yes | |
| clean Progra | Yes | | |
| Moto Offset | Color Gobo RGobo Focus Zoom | | |
| Moto Reset | Yes/No | | |
| Information | LED Temperature | XX | |
| | Fixture use Time | XXXX | |
| | Software Version | VA X. X. X VB X. X. X | |
| Test Mode | Auto Test | | |
| | Dimmer | 000 - 255 | LED brightness |
| | Color | 000 - 255 | Motor position |
| | Gobo | 000 - 255 | Motor position |
| | RGobo | 000 - 255 | Motor position |
| | Focus | 000 - 255 | Motor position |
| | Zoom | 000 - 255 | Motor position |
| Operation Mode | DMX Mode | Yes | |
| | User Memory | Yes | |
| | Preset Memory (PR01~PR16) | PR01~PR16 | |
| | User Progra Edit (ET01~ET16) | Dimmer | 000 - 255 |
| | | Strobe | 000 - 255 |
| Color | | 000 - 255 | |

| | | | |
|--|--|-----------|--------------------|
| | | Gobo | 000 - 255 |
| | | RGobo | 000 - 255 |
| | | Focus | 000 - 255 |
| | | Zoom | 000 - 255 |
| | | Keep Time | 000 - 200 (0- 20S) |

6. DMX PROTOCOL

| | Function | DMX Value | Description |
|---------|---|-----------|---|
| 1 | Dimmer | 000-255 | 0-100% linear dimmer |
| 2 | Dimmer Fine | 000-255 | Dimmer in 16 bit |
| 3 | Strobe | 000-007 | No |
| | | 008-255 | Strobe from slow to fast |
| 4 | Color Wheel | 000-009 | Color1 |
| | | 010-019 | Color1 - Color2 |
| | | 020-029 | Color2 |
| | | 030-039 | Color2 - Color3 |
| | | 040-049 | Color3 |
| | | 050-059 | Color3 - Color4 |
| | | 060-069 | Color4 |
| | | 070-079 | Color4 - Color5 |
| | | 080-089 | Color5 |
| | | 090-099 | Color5 - Color6 |
| | | 100-109 | Color6 |
| | | 110-119 | Color6 - Color1 |
| | | 120-127 | Color1 |
| | | 128-191 | Clockwise rotation from slow to fast |
| 192-255 | Anti-clockwise rotation from slow to fast | | |
| 5 | Rotating Gobo Wheel | 000-015 | Gobo1 |
| | | 016-031 | Gobo 2 |
| | | 032-047 | Gobo 3 |
| | | 048-063 | Gobo 4 |
| | | 064-079 | Gobo 1 shake |
| | | 080-095 | Gobo 2 shake |
| | | 096-111 | Gobo 3 shake |
| | | 112-127 | Gobo 4 shake |
| | | 128-189 | Clockwise rotation from fast to slow |
| | | 190-193 | Stop |
| | | 194-255 | Anti-clockwise rotation from fast to slow |
| 6 | Rotating Gobo | 000-127 | Gobo position |
| | | 128-189 | Clockwise rotation from fast to slow |
| | | 190-193 | Stop |
| | | 194-255 | Anti-clockwise rotation from fast to slow |

| | | | |
|---|----------|---------|-----------------|
| 7 | Focus | 000-255 | Linear focusing |
| 8 | Zoom | 000-255 | Linear zooming |
| 9 | Function | 000-199 | No |
| | | 200-209 | Motor reset |
| | | 210-255 | No |

7. TECHNICAL DATA

ELECTRIC SPECIFICATIONS

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

Input power: 170W @ 220V

Maximum current:0.9A

Power factor: PF>0.95

LIGHT SOURCE SPECIFICATIONS

| | | |
|-------------------------------|-----------------------------|----------|
| Qty | TX-3636W150FC120-NUVENG-A01 | 150W LED |
| Manufacturers Rated Lamp Life | 50000hours | |
| Power consumption | 150W,1pc,White | |
| Color temperature | 7500K | |

COLORS

1 color wheel(5 fixed colors+ open),continual rotation, magnet sensor for positioning

ROTATING GOBO WHEEL

1 rotating gobo wheel,4 Gobos

DIMMER

Linear Dimmer from 0-100%

STROBE

Electronic Strobe 0.3 -25FPS with pulse macros

BEAM ANGLE

Beam Angle 15 °~45 °,linear dimming

CONTROL

International standard DMX512 signal control protocol, 5-pin DMX 512 interfaces

Master/Slave synchronized Mode

Stand alone mode, preset memory, self test mode, static scene mode

3 operation modes(DMX mode, user memory, preset memory)

OTHER FUNCTIONS

Wireless receiver

LCD display invertible

DMX512 interface for firmware upgrade, quick and convenient

Over-temperature protection

HOUSING

High tensile cast Aluminum alloy , IP65

NET WEIGHT

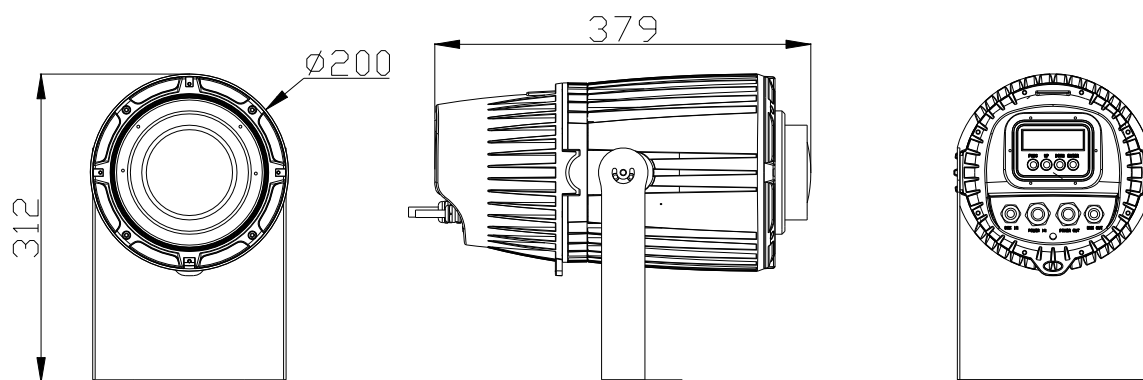
Net weight 9.5Kg

Gross weight 12.8 Kg in cardboard box

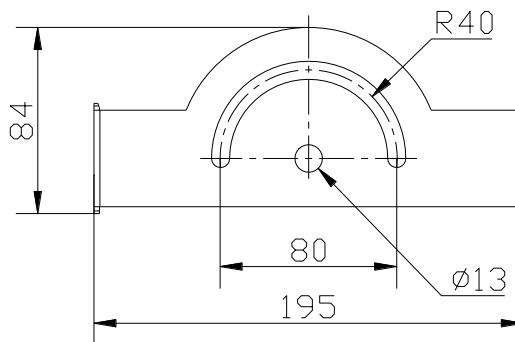
OPERATION TEMPERATURE

Maximum ambient temperature: 40 °C

SIZES:



ARM INSTALLATION DIAGRAM



PR LIGHTING LTD.

1582 Xingye Avenue, Nancun Panyu
Guangzhou, 511442 China
TEL: +86-20-3995 2888

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: 632000096A
Version:20200928