




*DREAM LIGHT Workshop*

## **User Manual**

A large blue rectangular block on the left side of the page, partially overlapping a smaller blue rectangular block on the right side. Two white curved lines cross each other in the center of the large block.

DREAM L800 SPOT  
DREAM L800H SPOT  
DREAM L1000 SPOT  
DREAM L1000H SPOT

Guangzhou Dream Lighting Equipment Co., LTD

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## Safety Information






**Note:** Please check the complete package after received the fixture, and please unpack and check if the fixture is damaged during shipping. If the fixture is damaged during shipping, please do not use it and contact the manufacturer/local technicians as soon as possible.

The following identifications are used to identify the product and identify the important safety information in the user manual.

|                       |                              |  |                                       |                                    |  |  |                           |
|-----------------------|------------------------------|--|---------------------------------------|------------------------------------|--|--|---------------------------|
|                       |                              |  |                                       |                                    |  |  |                           |
| Caution               | Used indoor only!            | Refer to the manual before installation/ power on/ maintenance | Caution Eelectric shock hazard!       | Properly grounded                  | Caution wear goggles!  | Caution Don't touch!                   | Caution Must wear gloves! |
|                       |                              |  |                                       | $t_a \dots ^\circ\text{C}$         |  |  |                           |
| Caution Prevent fire! | Don't watch the bright lamp! | Forbidden to touch fixture during movement!                    | Shortest distance from the object (m) | Rated maximum ambient temperature! | Don't install the fixture on the surfact of combustible materials! | Replace any cracked protective shields |                           |

### Notes:

- The fixture is used professionally only, please don't used it for any other purposes.
- Please refer to the latest user manual before using the fixture. It is out of warranty if any problems caused by any incorrect use or neglecting the user manual.
- The fixture is used indoor only; the protection level rate is IP20. Please keep the fixture dry and avoid to use the fixture under the environment of damp, overheating or dustiness. Please keep the fixture away from water or any other liquids.
- In order to avoid damage the fixture, it is required more than 1 person when moving the fixture. When hanging the fixture, the hanging device must be tested. The hanging device should be able to bear more than 10 times of weight of the fixture. Please make sure fixture shells and fixed G-clamp are completed after installed. Please use the safety chain to keep the fixture fixed on the truss safely.
- The fixture should be installed in a well-ventilated place. Keep the distance from obstacles above 0.5m, and please check the fans and ventilation holes are not blocked.

- Please don't install the fixture on the surfaces of the inflammable goods directly. (  )
- Please check the voltage before the professional technicians install the fixture.  
The voltage must be the same with the voltage which marked on the fixture.  
Overloading protection or leakage protection are also required.
- Before power on the fixture, please check whether the fuse meets the technical requirements.  
Please don't replace the fuse without professional instructions and short circuit it when the fixture is powered on. And then confirm whether the input voltage meets the technical requirements and the ground wire is properly connected.
- Please cut off the power supply when replacing the fuse. (  )
- Rated highest ambient temperature when the fixture is working:  $t_a = 40^{\circ}\text{C}$ .
- The safe and shortest distance to the illuminate object: 5m.
- when the fixture working, the highest surface temperature:  $t_c = 75^{\circ}\text{C}$ .
- The shortest safety distance to inflammable material: 0.7m.
- Please don't touch the fixture when it is working stably and its highest surface temperature reaches  $75^{\circ}\text{C}$ .
- The distance should be longer than 3.5 m when the installation location of the fixture is designed to be stared for a long time.
- When using the fixture, please pay attention to severe damage caused by the shock from fire, heat, or the UV violation.
- Please don't look at the working fixture directly without any eye protection.
- Please avoid to use the fixture in the in thunderstorm weather or in the humid environment.
- Please replace the protective cover and lens if any visible damage happened or the damage has reached the malfunction level. (  )
- The LED module of this fixture should be replaced by the manufacturer or its service agent or someone with similar qualifications.
- The fixture must be installed, operated, and maintained by professionals strictly according to the user manual.
- All the information of the user manual is for your reference only. All fixtures should be subject to the actual product, which is subject to change without prior notice.

## Package & Transportation

### Fixture package

Please cut off the power supply and cooling it for over 15mins before packing the fixture.

Lock the The horizontal axis protection lock and the vertical axis protection lock well.

Please place the fixture in the plastic bag, and then carefully put it into the flight case vertically, the parts are placed at special area in flight case, then close the lid and lock the flight case. Please don't put it upside down.

### Transport protection lock

Protective locks for pan and tilt movement are installed in the fixture for safe transportation.

### Unpacking

- Open the packing box, and then open the inner packing bag.
- Grasp the handle of the fixture, take it out of the case carefully.
- Unlock the protective lock before power on the fixture.

Attention: Please check the complete package after received the fixture. Please check whether the fixture is damaged or not during the shipping after opened the packing. If the fixture is damaged during shipping, please don't use it and contact the manufacturer /local technicians as soon as possible.

### Accessories with fixture

| Accessories   | Qty |
|---------------|-----|
| User Manual   | 1   |
| Warranty Card | 1   |
| Safety Chain  | 1   |
| Signal Cable  | 1   |
| Power Cable   | 1   |

## Product Introduction Specification

### Power supply and voltage

AC200-240V 50/60Hz.

DREAM L1000(H) SPOT Rated Input Power: 1280W, PF $\geq$ 0.98, rated electrical current:6.4A.

DREAM L800(H) SPOT Rated Input Power: 1080W, PF $\geq$ 0.98, rated electrical current:5.4A.

### Light Source

- DREAM L1000 SPOT Light source:1000W LED white source module(high brightness);
- DREAM L1000H SPOT Light source:1000W LED white source module(high CRI);
- DREAM L800 SPOT Light source:800W LED white source module(high brightness);
- DREAM L800H SPOT Light source:800W LED white source module(high CRI);
- LED Expected Lifespan:20000Hrs.

### Optics System

- Lens: Anti-reflective film covered, Diameter of lens:180mm
- Zoom range: 5°~58°

### Effect Equipment

- 1 prism effects,with bidirectional rotation function;
- One independent frost;
- Electronic dimming function available, 0-100% dimming control, choice of four dimming curves, choice of four dimming speed;
- Electronic fast strobe, strobe speed is 1-25 times /s,multiple strobe speed options available;
- Fast motorized iris 5-100% linear adjustment, with macro functions and multiple effect changes;

### Fixture movement parameter

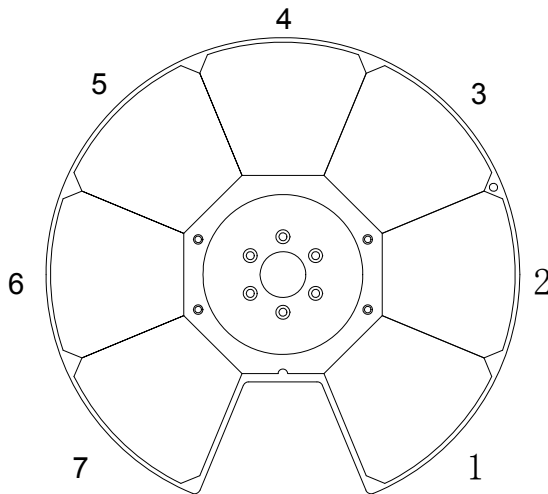
- PAN=540°, PAN precision: 16bit;
- TILT=270°, TILT precision: 16bit;

## **Electronic Control Technology**

- Channel:25Ch/29Ch/42Ch;
- Control Protocols: DMX512,RDM;Art-net,sACN,wireless function(optional).
- Control interface:XLR-3+XLR-5;RJ45(optional);
- Menu display: 3.5 inches LCD color touch screen; Random switch of Chinese and English language, menu available to display 180°reversely;
- Built-in self-recharging battery, edit menu without power supply(optional), Support external power bank to enter the menu to set the address code and other settings.
- Intelligent control, electronic sensor /fan intelligent detection and control;
- Support energy-saving mode, ECO mode, auto stand-by and sleep mode.
- Horizontal and vertical, non-touch magnetic encoder positioning;

**Color System**

- CMY endless color mixing, color (RGB) output has good saturation and pure colors;
- CTO 3200-6200K Linear adjustment.
- Fixed color wheel, 7 colors + open, can realize bidirectional color rainbow, step, sliding gradient, random color mode.(Pic1)

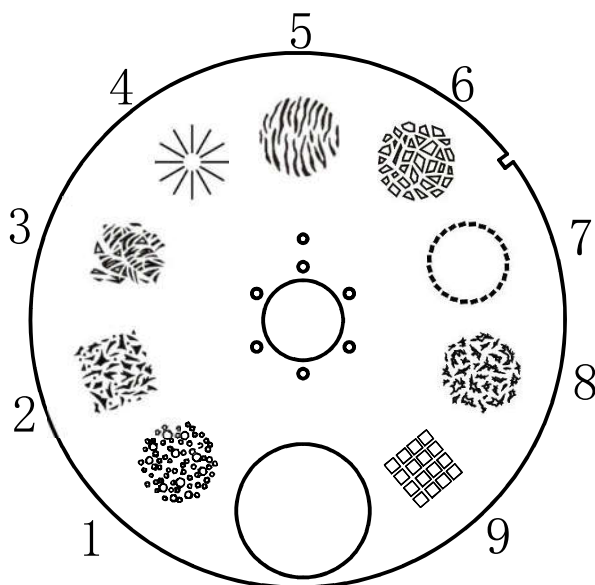


- 1.High CRI filter
- 2.Pink
- 3.Orange
- 4.Purple
- 5.Blue
- 6.Green
- 7.RED

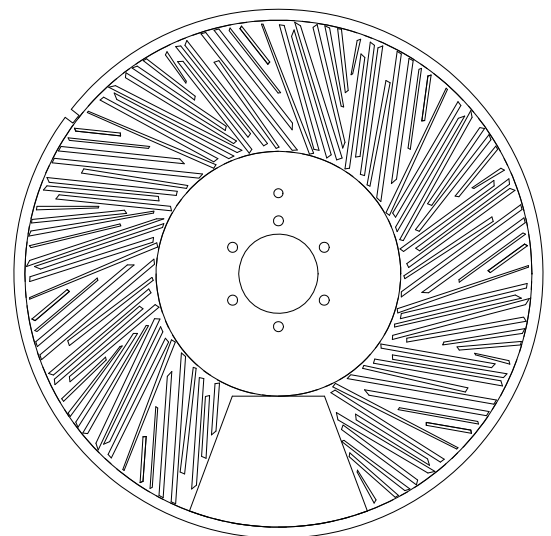
Pic1

**Gobo System**

- 1 fixed gobo wheel, 9 gobo plates effects + 1 white color, the gobo wheel can realize bidirectional water-flow effect (Pic2)
- 1 dynamic gobo wheel,it can imitate cloud,flame,and water-flow etc. effects (Pic3)

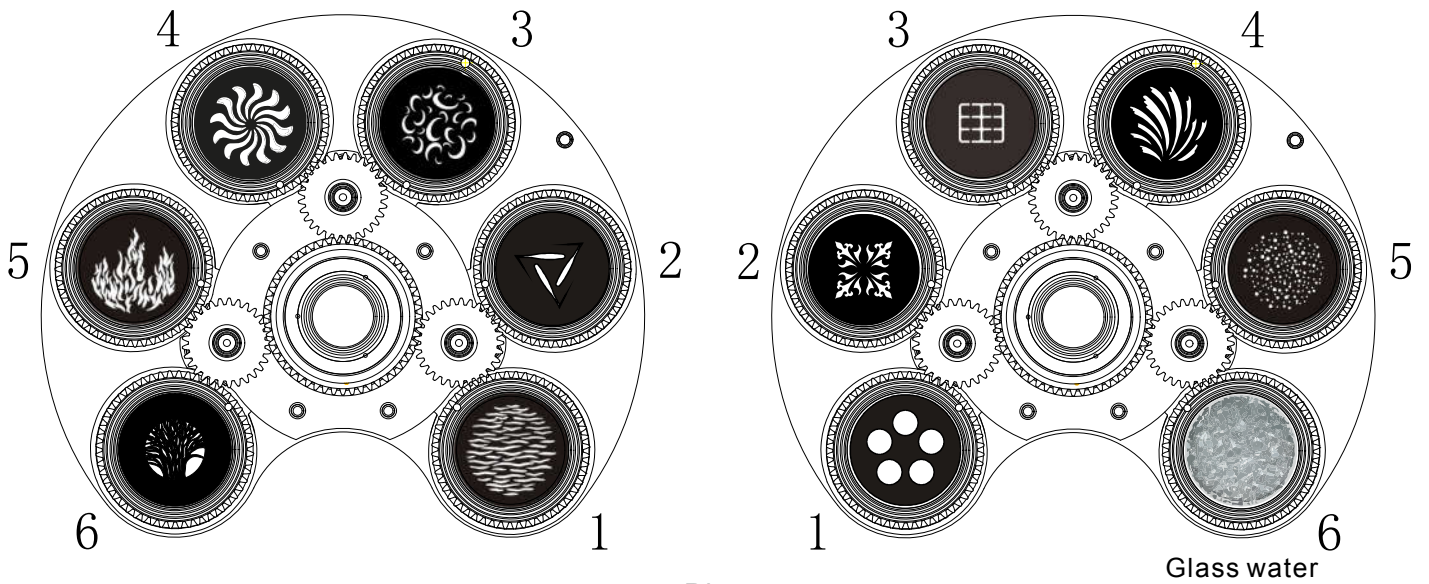


Pic2



Pic3

- The fixture has 2 rotating gobo wheels, each with 6 bidirectional rotating positioning gobo plates; they can achieve rotating, flowing water, and shaking effects; the gobos can also achieve 16bit precise positioning.(Pic4)



Pic4

### Gobo Specifications

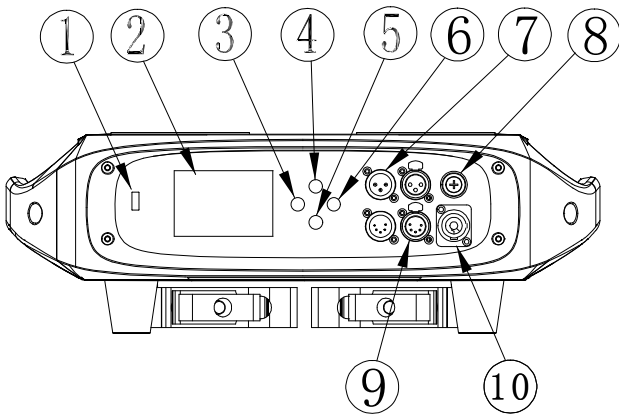
- The gobo plates are made from glass or metal, it can be customized according to user needs; The size for customized gobo plates:

| Material   | Outer diameter | Effective Diameter | Thickness |
|--|----------------|--------------------|-----------|
| Metal gobo plates  | ∅31.8mm        | ∅23mm              | 0.5mm     |
| Glass gobo plates adopt high temperature resistant glass for coating |                |                    |           |

## Fixture Size & Weight

- Fixture size:462X462X812 (mm)
- Packing size:710X550X865 (mm) (flight case)
- Net weight of the fixture:44Kg
- Net weight of the Flight case:30Kg
- IP Rate: IP20

## Operation Panel



Pic5

① Display content



Address



Manual



Settings



Test



Advanced



Information

Pic6




As shown in Pic5:




- |              |                 |                 |            |
|--------------|-----------------|-----------------|------------|
| 1.USB        | 2.LCD screen    | 3.Left (Return) | 4.Up       |
| 5.Down       | 6.Right (Enter) | 7.DMX input     | 8.Fuse box |
| 9.DMX output | 10.Power supply |                 |            |

## Operation Panel Instructions

- Up arrow: Select Sub-menu cyclically (upward).Up cycle to adjust the data value.
- Down arrow: Select Sub-menu cyclically (downward). Down cycle to adjust the data value.
- Menu (Return Button): Return to the previous menu.
- Confirm Button: Confirm the selected data value or select cyclical data window.
- Black screen unlock:back to menu,enter password “up down up down”, then press “Enter”.

## Detailed Operation Table of Display panel

|   |                     |  |         |
|---|---------------------|--|---------|
| <b>Settings</b><br>  | 1. X axis reverse   | On, off  |         |
|   | 2. Y axis reverse   | On, off  |         |
|   | 3. Exchange XY axis | On, off  |         |
|   | 4. XY axis speed    | Slow, normal, fast   |         |
|   | 5. dimmer curve     | Curve 1, Curve 2, Curve 3, Curve 4                             |         |
|   | 6. Dimmer speed     | 1.2KHz, 6KHz, 12KHz, 24KHz, 25KHz                              |         |
|   | 7. Effect speed     | Effect speed 1, Effect speed 2, Effect speed 3, Effect speed 4 |         |
|   | 8. Fan mode         | Mute, Normal, Speed, Auto                                      |         |
|   | 9. Auto Rest screen | On, off  |         |
|   | 10. Reverse display | On, off  |         |
|   | 11. Botton lock     | On, off  |         |
|   | 12. language        | Chinese, English   |         |
|   | 13. Sleep mode      | On, off  |         |
|   | 14. fixture type    | .....  |         |
|   | Exit                |  |         |
| <b>Manual</b><br>   | 1. Channel          |  |         |
|   |                     | 1. Pan   | 000~255 |
|   |                     | 2. Tilt  | 000~255 |
|   |                     | 3. Strobe  | 000~255 |
|   |                     | 4. Dimmer  | 000~255 |
|   |                     | 5. Focus   | 000~255 |
|   |                     | 6. Zoom  | 000~255 |
|   |                     | 7. Cyan  | 000~255 |
|   |                     | 8. Magenta   | 000~255 |
|   |                     | 9. Yellow  | 000~255 |
|   |                     | 10. CTO  | 000~255 |
|   |                     | 11. Color Wheel  | 000~255 |
|   |                     | 12. Gobo 1   | 000~255 |
|   |                     | 13. Gobo 1 rot   | 000~255 |
|   |                     | 14. Gobo 2   | 000~255 |
|   |                     | 15. Gobo 2 rot   | 000~255 |
|   |                     | 16. Iris   | 000~255 |
|   |                     | 17. Fixed gobo wheel   | 000~255 |
|   |                     | 18. Animation wheel  | 000~255 |
|   |                     | 19. Prism  | 000~255 |
|   |                     | 20. Prism spin   | 000~255 |
|   |                     | 21. Frost  | 000~255 |
|   |                     | 22. fixture control  | 000~255 |
|   |                     | Exit   |         |
| 2. Reset  | Yes/No              |  |         |
| Exit  |                     |  |         |
| <b>Address</b><br> | 1. DMX Address      | 001~512  |         |
|   |                     | Exit   |         |
|   | 2. Channel mode     | Basic  |         |
|   |                     | Standard   |         |
|   |                     | Extend   |         |
|   | 3. No DMX Mode      | DMX hold   |         |
|   |                     | Black out  |         |
|   | Exit                |  |         |
| Exit  |                     |  |         |

|   |                             |                     |           |
|---|-----------------------------|---------------------|-----------|
| <b>Information</b><br> | 1. Fixture using time       | Fixture using time  | XXXX      |
|   |                             | Lighting time       | XXXX      |
|   |                             | Exit                |           |
|   | 2. Version                  | Panel Ver:          | XXXX      |
|   |                             | Pan/tilt board Ver: | XXXX      |
|   |                             | Drive board1 Ver:   | XXXX      |
|   |                             | Drive board2 Ver:   | XXXX      |
|   |                             | Drive board3 Ver:   | XXXX      |
|   |                             | Drive board4 Ver:   | XXXX      |
|   |                             | Exit                |           |
|   | 3. Temperature              | Panel:              | XXX-XXX   |
|   |                             | Pan/tilt board:     | XXX-XXX   |
|   |                             | Drive board1:       | XXX-XXX   |
|   |                             | Drive board2:       | XXX-XXX   |
|   |                             | Drive board3:       | XXX-XXX   |
|   |                             | Drive board4:       | XXX-XXX   |
|   |                             | Exit                |           |
|   | 4. Fan speed                | Panel:              | XXXX-XXXX |
|   |                             | Pan/tilt board:     | XXXX-XXXX |
|   |                             | Drive board1:       | XXXX-XXXX |
|   |                             | Drive board2:       | XXXX-XXXX |
|   |                             | Drive board3:       | XXXX-XXXX |
|   |                             | Drive board4:       | XXXX-XXXX |
|   | Exit                        |                     |           |
| 5. RDMID  | XXXXXXXXXX                  |                     |           |
|   | Exit                        |                     |           |
| 6. Error  | NONE                        |                     |           |
|   | Exit                        |                     |           |
|   | Exit                        |                     |           |
| <b>Advanced</b><br>  | 1. Restore factory settings | No                  |           |
|   |                             | Yes                 |           |
|   |                             | Exit                |           |
|   | 2. Use Time clear           | No                  |           |
|   |                             | Yes                 |           |
|   |                             | Exit                |           |
|   | 3. LED Time clear           | No                  |           |
|   |                             | Yes                 |           |
|   |                             | Exit                |           |
|   | 4. Zero calibration         | .....               |           |
|   | Exit                        |                     |           |
|   | Exit                        |                     |           |
| <b>Test</b><br>      | 1. Automatic testing        |                     |           |
|   |                             | Yes                 |           |
|   |                             | No                  |           |
|   |                             | Exit                |           |
|   | Exit                        |                     |           |

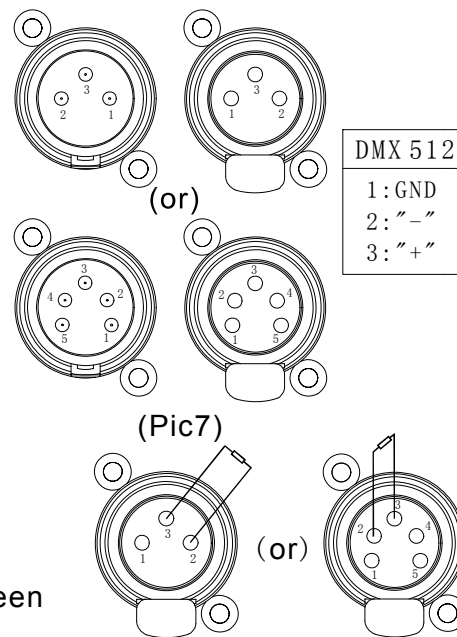
## Signal connection

The fixture adopts 3pin/5pin socket to control DMX input and output, Pin1 is connected to grounded, Pin2 is connected to"-", Pin3 is connected to"+“(Pic7).

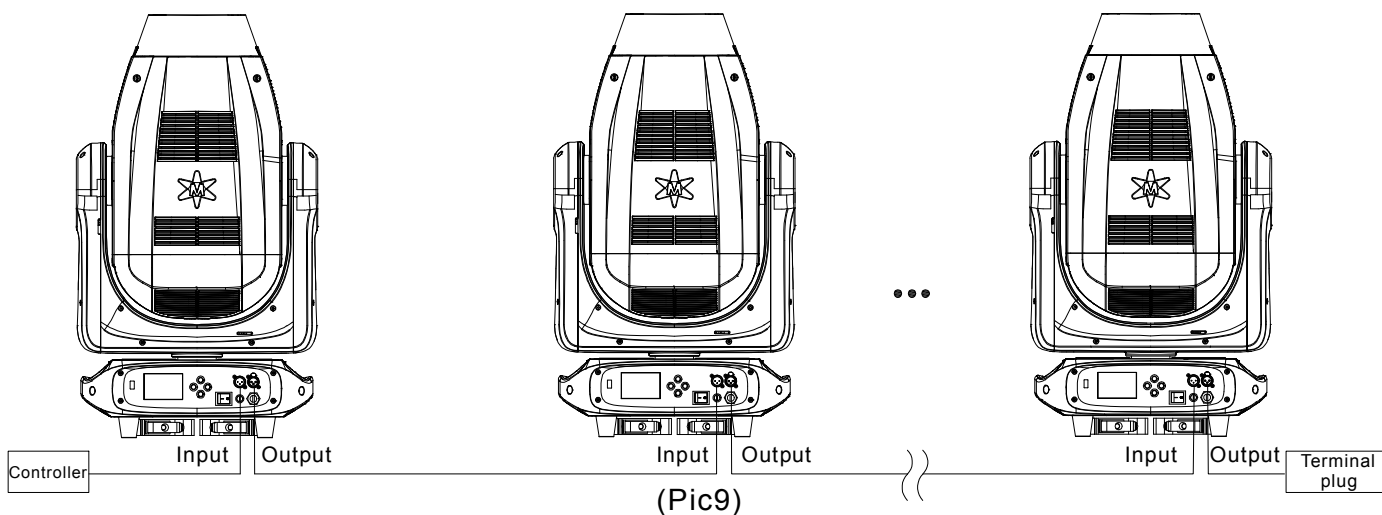
Please adopt professional DMX512 STP signal cable, usually its effective range is within 150m. When long distance signal transmission is required, please add DMX 512 signal amplifier.

To avoid the signal reflection during the transmission, please add a terminal which is 120Ω 1/4W resistance between DMX output pin2 and pin 3 of the last fixture. Plug the pin to the DMX output connector of the last fixture. (Pic 8)

Connect the fixture from the DMX output of controller to DMX input of the first fixture, and then connect the first fixture's DMX output to the second fixture's DMX input and so on, until all fixtures are being connected. Then please install a terminal plug in DMX output of the last fixture. (Pic 8) The method of connection as show bellow. (Pic 9)



Terminal socket (Pic8)



- Notice:
- Don't use multi- output connecter for connecting separately, It must connect the branch with DMX512 signal amplifier to separate them if it is required.
  - Standard amplifier cable is not reliable for long-distance data transmission; Please adopt professional DMX 512 STP signal cable.
  - The signal of the fixture only has one input and one output. Two input/output for each fixture are not available.

## Power connection

Input voltage and frequency must be identical to the voltage and frequency marked on the fixture. When many fixtures are working at the same time, it is strongly recommended to control each fixture on/off individually.

## Connection type

L(Live line)Brown wire

N(Null line)Blue wire

E(Earth line)Yellow and green wire

### Notice:

- When connect power supply, please make sure the E line (yellow &green.) is properly connected. And it is corresponded with the relative electrical installation standards.
- Insulation class between LV power supply and controlling conductor: I
- Please confirm the voltage of the power supply is corresponded to the voltage on the fixture's identifications before professionals install it. Please also make sure it has overload or leakage protection.
- If the external cable is damaged, don't change it by yourself, please contact the manufacture/local as soon as possible.

## Installation instruction& requirement

The user need to make regularly inspect the safety fixtures and installing parts,if there is lack of operating conditions and professional standards, please operate it by professional person, to avoid to incorrect installation by non-professional person leading to property loss or life danger.

Make sure there is no damage to rigging and clamps and they can bear at least 10 times weight of the fixture. Check if the truss or pipe construction can bear at least 10 times total weight of all equipment, clamps,cables and accessories.

## G-clamp Installation

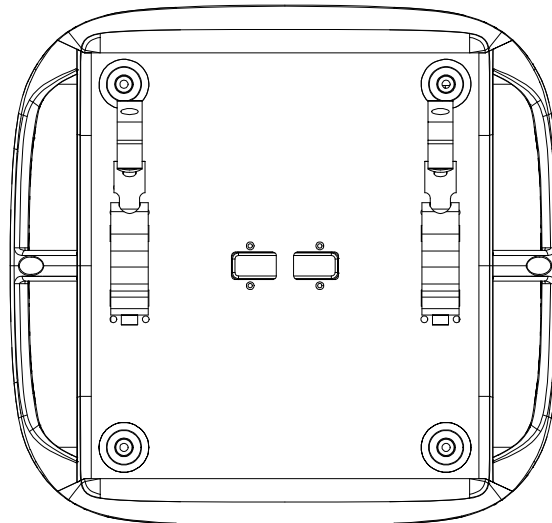
Fixture comes with G-clamp. (Pic10)

## Fixture Installation

Fixture is installed on the stage or truss, and the G-clamp can be locked on the truss tightly and quickly. (Pic11)

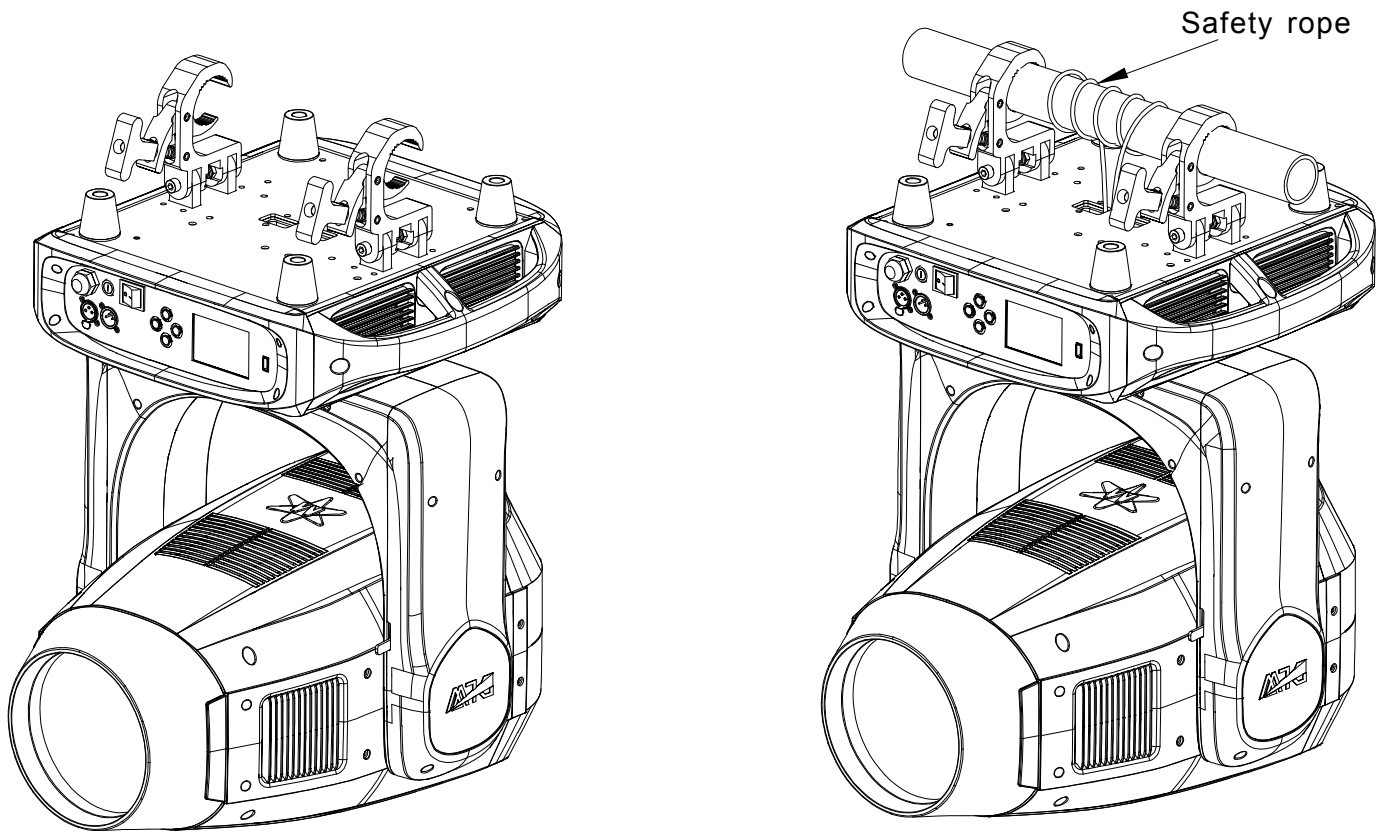
Notice:

- User must check if the G-clamp and safety chain are damaged or not.
- Must to adding a safety chain to connect the hole in the base, don't connect it to the handle.
- Please unlock the lock of pan/tilt before power on.
- Side hanging for lang time is not recommended.



**Pan position**

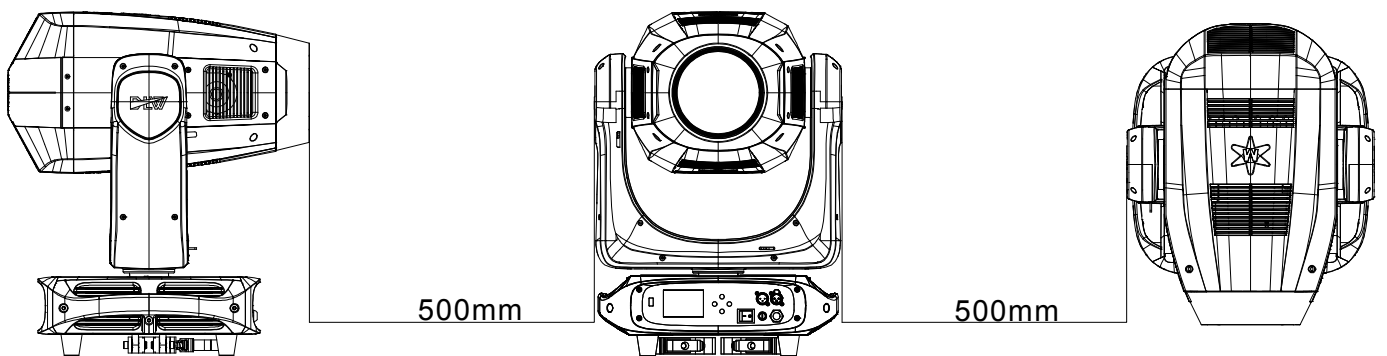
**Pic10**



Pic11

**Fixture Placement**

When place the fixture, please check there is no inflammable object or inflammable material around the fixture. Then place the fixture vertically upward. The shortest safety distance for adjacent fixtures is  $\geq 0.5$  m when they are working. Fixtures installation show as follow(pic 12).



Pic12

## DMX channel Sheet (Brief)

| Channel | 25CH             | 29CH             | 42CH                  |
|---------|------------------|------------------|-----------------------|
| 1       | Pan              | Strobe           | Pan                   |
| 2       | Pan Fine         | Dimmer           | Pan Fine              |
| 3       | Tilt             | Dimmer Fine      | Tilt                  |
| 4       | Tilt Fine        | Cyan             | Tilt Fine             |
| 5       | Strobe           | Magenta          | Strobe                |
| 6       | Dimmer           | Yellow           | Dimmer                |
| 7       | Dimmer Fine      | CTO              | Dimmer Fine           |
| 8       | Focus            | Color Wheel      | Focus                 |
| 9       | Zoom             | Gobo1            | Focus Fine            |
| 10      | Cyan             | Gobo1 ROT        | Zoom                  |
| 11      | Magenta          | Gobo1 ROT Fine   | Zoom Fine             |
| 12      | Yellow           | Gobo2            | Cyan                  |
| 13      | CTO              | Gobo2 ROT        | Cyan Fine             |
| 14      | Color Wheel      | Gobo2 ROT Fine   | Magenta               |
| 15      | Gobo1            | Fixed Gobo Wheel | Magenta Fine          |
| 16      | Gobo1 ROT        | Animation wheel  | Yellow                |
| 17      | Gobo2            | Frost            | Yellow Fine           |
| 18      | Gobo2 ROT        | Prism            | CTO                   |
| 19      | Iris             | Prism ROT        | CTO Fine              |
| 20      | Fixed Gobo Wheel | Iris             | Color Wheel           |
| 21      | Animation wheel  | Zoom             | Color Wheel Fine      |
| 22      | Prism            | Zoom Fine        | Gobo1                 |
| 23      | Prism ROT        | Focus            | Gobo1 ROT             |
| 24      | Frost            | Focus Fine       | Gobo1 ROT Fine        |
| 25      | Fixture control  | Pan              | Gobo2                 |
| 26      | -                | Pan Fine         | Gobo2 ROT             |
| 27      | -                | Tilt             | Gobo2 ROT Fine        |
| 28      | -                | Tilt Fine        | Iris                  |
| 29      | -                | Fixture control  | Iris Fine             |
| 30      | -                | -                | Fixed Gobo Wheel      |
| 31      | -                | -                | Fixed Gobo Wheel Fine |
| 32      | -                | -                | Animation wheel       |
| 33      | -                | -                | Animation wheel Fine  |
| 34      | -                | -                | Prism                 |
| 35      | -                | -                | Prism ROT             |
| 36      | -                | -                | Frost                 |
| 37      | -                | -                | Frost Fine            |
| 38      | -                | -                | Fixture control       |
| 39      | -                | -                | Pan/Tilt Speed        |
| 40      | -                | -                | Color Speed           |
| 41      | -                | -                | Focus/zoom speed      |
| 42      | -                | -                | Gobo speed            |

## DMX Specific Channel Sheet

| 25CH    | 29CH                                      | 42CH | Specifications | DMX Value | Function                             |
|---------|---|------|----------------|-----------|--------------------------------------|
| 1       | 25  | 1    | Pan            | 0-255     | 0°->540°                             |
| 2       | 26  | 2    | Pan Fine       |           |                                      |
| 3       | 27  | 3    | Tilt           | 0-255     | 0°->252°                             |
| 4       | 28  | 4    | Tilt Fine      |           |                                      |
| 5       | 1   | 5    | Strobe         | 0-19      | Off                                  |
|         |   |      |                | 20-49     | On                                   |
|         |   |      |                | 50-200    | Strobe, slow->fast                   |
|         |   |      |                | 201-210   | On                                   |
|         |   |      |                | 211-255   | Random Strobe, slow->fast            |
| 6       | 2   | 6    | Dimmer         | 0-255     | 0%->100% off->on                     |
| 7       | 3   | 7    | Dimmer Fine    |           |                                      |
| 8       | 23  | 8    | Focus          | 0-255     | From far to near                     |
| -       | 24  | 9    | Focus Fine     |           |                                      |
| 9       | 21  | 10   | Zoom           | 0-255     | From large to small                  |
| -       | 22  | 11   | Zoom Fine      |           |                                      |
| 10      | 4   | 12   | Cyan           | 0-255     | Cyan 0-100%                          |
| -       | -   | 13   | Cyan Fine      |           |                                      |
| 11      | 5   | 14   | Magenta        | 0-255     | Magenta 0-100%                       |
| -       | -   | 15   | Magenta Fine   |           |                                      |
| 12      | 6   | 16   | Yellow         | 0-255     | Yellow 0-100%                        |
| -       | -   | 17   | Yellow Fine    |           |                                      |
| 13      | 7   | 18   | CTO            | 0-255     | CTO 0-100%                           |
| -       | -   | 19   | CTO Fine       | 0-255     |                                      |
| 14      | 8   | 20   | Color Wheel    |           | Linear movement                      |
|         |   |      |                | 0-119     | Color Linear movement                |
|         |   |      |                | 120-120   | White                                |
|         |   |      |                |           | Full color mode                      |
|         |   |      |                | 121-125   | Color1                               |
|         |   |      |                | 126-130   | Color2                               |
|         |   |      |                | 131-135   | Color3                               |
|         |   |      |                | 136-140   | Color4                               |
|         |   |      |                | 141-145   | Color5                               |
|         |   |      |                | 146-150   | Color6                               |
|         |   |      |                | 151-155   | Color7                               |
|         |   |      |                | 156-160   | White                                |
|         |   |      |                |           | Color water running mode             |
|         |   |      |                | 161-200   | Clockwise rotation from fast to slow |
|         |   |      |                | 201-203   | Stop                                 |
| 204-243 | Anti-clockwise rotation from slow to fast |      |                |           |                                      |
|         | (random Color Mode)                       |      |                |           |                                      |

|         |   |    |                  |         |                                      |
|---------|---|----|------------------|---------|--------------------------------------|
|         |   |    |                  | 244-247 | Fast                                 |
|         |   |    |                  | 248-251 | Medium                               |
|         |   |    |                  | 252-255 | Slow                                 |
| -       | -   | 21 | Color Wheel Fine |         |                                      |
| 15      | 9   | 22 | Gobo1            |         | Positioning mode                     |
|         |   |    |                  | 0-11    | White                                |
|         |   |    |                  | 12-19   | Gobo1                                |
|         |   |    |                  | 20-27   | Gobo2                                |
|         |   |    |                  | 28-35   | Gobo3                                |
|         |   |    |                  | 36-43   | Gobo4                                |
|         |   |    |                  | 44-51   | Gobo5                                |
|         |   |    |                  | 52-59   | Gobo6                                |
|         |   |    |                  | 60-84   | Gobo1 shake from slow to fast        |
|         |   |    |                  | 85-109  | Gobo2 shake from slow to fast        |
|         |   |    |                  | 110-134 | Gobo3 shake from slow to fast        |
|         |   |    |                  | 135-159 | Gobo4 shake from slow to fast        |
|         |   |    |                  | 160-184 | Gobo5 shake from slow to fast        |
|         |   |    |                  | 185-209 | Gobo6 shake from slow to fast        |
|         |   |    |                  |         | ROT mode                             |
| 210-232 | Anti-clockwise rotation from fast to slow |    |                  |         |                                      |
| 233-255 | Clockwise rotation from slow to fast      |    |                  |         |                                      |
| 16      | 10  | 23 | Gobo1 ROT        |         | Positioning mode                     |
|         |   |    |                  | 0-127   | Indexing (0-360Degree)               |
|         |   |    |                  |         | ROT mode                             |
|         |   |    |                  | 128-190 | Clockwise rotation from fast to slow |
|         |   |    |                  | 191-192 | Stop                                 |
| 193-255 | Anti-clockwise rotation from slow to fast |    |                  |         |                                      |
| -       | 11  | 24 | Gobo1 ROT Fine   | 0-255   |                                      |
| 17      | 12  | 25 | Gobo2            |         | Positioning mode                     |
|         |   |    |                  | 0-11    | White                                |
|         |   |    |                  | 12-19   | Gobo1                                |
|         |   |    |                  | 20-27   | Gobo2                                |
|         |   |    |                  | 28-35   | Gobo3                                |
|         |   |    |                  | 36-43   | Gobo4                                |
|         |   |    |                  | 44-51   | Gobo5                                |
|         |   |    |                  | 52-59   | Gobo6                                |
|         |   |    |                  | 60-84   | Gobo1 shake from slow to fast        |
|         |   |    |                  | 85-109  | Gobo2 shake from slow to fast        |
|         |   |    |                  | 110-134 | Gobo3 shake from slow to fast        |
|         |   |    |                  | 135-159 | Gobo4 shake from slow to fast        |
| 160-184 | Gobo5 shake from slow to fast             |    |                  |         |                                      |

|    |    |    |                       |         |   |
|----|----|----|-----------------------|---------|---|
|    |    |    |                       | 185-209 | Gobo6 shake from slow to fast             |
|    |    |    |                       |         | ROT mode                                  |
|    |    |    |                       | 210-232 | Anti-clockwise rotation from fast to slow |
|    |    |    |                       | 233-255 | Clockwise rotation from slow to fast      |
| 18 | 13 | 26 | Gobo2 ROT             |         | Positioning mode                          |
|    |    |    |                       | 0-127   | Indexing (0-360Degree)                    |
|    |    |    |                       |         | ROT mode                                  |
|    |    |    |                       | 128-190 | Clockwise rotation from fast to slow      |
|    |    |    |                       | 191-192 | Stop                                      |
|    |    |    |                       | 193-255 | Anti-clockwise rotation from slow to fast |
| -  | 14 | 27 | Gobo2 ROT Fine        | 0-255   |   |
| 19 | 20 | 28 | Iris                  | 0-255   | Iris large to small                       |
| -  | -  | 29 | Iris Fine             |         |   |
| 20 | 15 | 30 | Fixed gobo wheel      |         | Step mode                                 |
|    |    |    |                       | 0-11    | White                                     |
|    |    |    |                       | 12-15   | Gobo1                                     |
|    |    |    |                       | 16-19   | Gobo2                                     |
|    |    |    |                       | 20-23   | Gobo3                                     |
|    |    |    |                       | 24-27   | Gobo4                                     |
|    |    |    |                       | 28-31   | Gobo5                                     |
|    |    |    |                       | 32-35   | Gobo6                                     |
|    |    |    |                       | 36-39   | Gobo7                                     |
|    |    |    |                       | 40-43   | Gobo8                                     |
|    |    |    |                       | 44-47   | Gobo9                                     |
|    |    |    |                       |         | Shake mode                                |
|    |    |    |                       | 48-63   | Gobo1 shake from slow to fast             |
|    |    |    |                       | 64-79   | Gobo2 shake from slow to fast             |
|    |    |    |                       | 80-95   | Gobo3 shake from slow to fast             |
|    |    |    |                       | 96-101  | Gobo4 shake from slow to fast             |
|    |    |    |                       | 102-127 | Gobo5 shake from slow to fast             |
|    |    |    |                       | 128-143 | Gobo6 shake from slow to fast             |
|    |    |    |                       | 144-159 | Gobo7 shake from slow to fast             |
|    |    |    |                       | 160-175 | Gobo8 shake from slow to fast             |
|    |    |    |                       | 176-191 | Gobo9 shake from slow to fast             |
|    |    |    |                       |         | water running mode                        |
|    |    |    |                       | 192-223 | Anti-clockwise rotation from fast to slow |
|    |    |    |                       | 224-255 | Clockwise rotation from slow to fast      |
| -  | -  | 31 | Fixed gobo wheel fine |         |   |
|    |    |    |                       | 0-9     | Null                                      |
|    |    |    |                       | 10-48   | Fast turn on, slow turn off               |
|    |    |    |                       | 49-87   | slow turn on, Fast turn off               |

|         |         |    |                      |         |   |
|---------|---------|----|----------------------|---------|---|
| 21      | 16      | 32 | Animation wheel      | 88-127  | Shake slow->fast                          |
|         |         |    |                      | 128-190 | Clockwise spinning from fast to slow      |
|         |         |    |                      | 191-192 | No Spin                                   |
|         |         |    |                      | 193-255 | Anti-clockwise rotation from slow to fast |
| -       | -       | 33 | Animation wheel Fine |         |   |
| 22      | 18      | 34 | Prism                | 0-10    | White                                     |
|         |         |    |                      |         | Positioning mode(prism spinning)          |
|         |         |    |                      | 11-138  | Prism insert                              |
|         |         |    |                      |         | Spinning mode(prism spinning)             |
| 23      | 19      | 35 | Prism spin           | 139-255 | Prism insert                              |
|         |         |    |                      |         | Positioning mode                          |
|         |         |    |                      | 0-255   | 0~360°                                    |
|         |         |    |                      |         | Spinning mode                             |
|         |         |    |                      | 0-2     | No Spin                                   |
|         |         |    |                      | 3-126   | Clockwise spinning from fast to slow      |
|         |         |    |                      | 127-129 | No Spin                                   |
|         |         |    |                      | 130-253 | Anti-clockwise rotation from slow to fast |
| 254-255 | No Spin |    |                      |         |   |
| 24      | 17      | 36 | Frost                | 0-255   | Frost Linear insert                       |
| -       | -       | 37 | Frost Fine           |         |   |
| 25      | 29      | 38 | Fixture control      | 0-9     | Null                                      |
|         |         |    |                      | 10-14   | Fixture reset                             |
|         |         |    |                      | 15-29   | Specification reset                       |
|         |         |    |                      | 30-34   | Pan-tilt reset                            |
|         |         |    |                      | 35-49   | Reserved                                  |
|         |         |    |                      | 50-54   | 1. 2KHz                                   |
|         |         |    |                      | 55-59   | 6 KHz                                     |
|         |         |    |                      | 60-64   | 12KHz                                     |
|         |         |    |                      | 65-69   | 24KHz                                     |
|         |         |    |                      | 70-255  | Reserved                                  |
| -       | -       | 39 | Pan/Tilt speed       | 0-255   | Stepping time from fast to slow           |
| -       | -       | 40 | Color speed          | 0-255   | Stepping time from fast to slow           |
| -       | -       | 41 | Focus/zoom speed     | 0-255   | Stepping time from fast to slow           |
| -       | -       | 42 | Gobo speed           | 0-255   | Stepping time from fast to slow           |

## Maintenance & cleaning of the fixture

The fixture needs to be maintained and cleaned daily, because its lifespan depends on working environment and daily maintenance. Please contact our company engineer for any questions and feedback which are out of this user manual to our professional engineer.

Notes as bellow: 

- The power supply must be cut off before open the shell.
- Please open the shell after the fixture cooled completely
- Cleaning the optics components gently to avoid scratching the surface coating, To avoid damaging plastic and scratching the surface coating, Please don't use any harmful liquid or hard objects.
- Wiping the particulate Matter with tasteless tissue-paper or cotton cloth with clean, distilled water. Don't wipe the surface, but blow away floating things with pressure gas, any residues must be cleaned with distilled water from center to edge, and then dry it with soft cotton cloth.
- Please change the lens in time when it cracks or has other damages
- It is out of warranty any damage caused by fan with overmuch dust, smoke fluidity and abnormal using fixture.
- There is temperature protection device of the fixture, when the temperature is so high that the lamp is off automatically, when this happens, please check the fan is working well or not, checking he fan filter is blocked by dust. Only reset the fixture after the qualified professional technicians troubleshoot well.
- Weekly cleaning and maintenance for the fan filters and lens. Do a complete maintenance in half a year.

## Fault treatment

The following are some problems in process of operation, and there are some suggestions for troubleshooting:

Fixture doesn't response, when power on

- Check if power input is normal.
- Check if power switch is on.
- Check if power supply switch is burned.

**Console losing control:**

- Check if the display is flicker, if yes, check if DMX signal connector and signal cable are connected well.
- If not flicker, but still no response to control channel, please check if IP address is correct set.
- If DMX signal is not stable, please check XLR socket and signal cable are connected well.
- Change another console for testing.

**channel failure:**

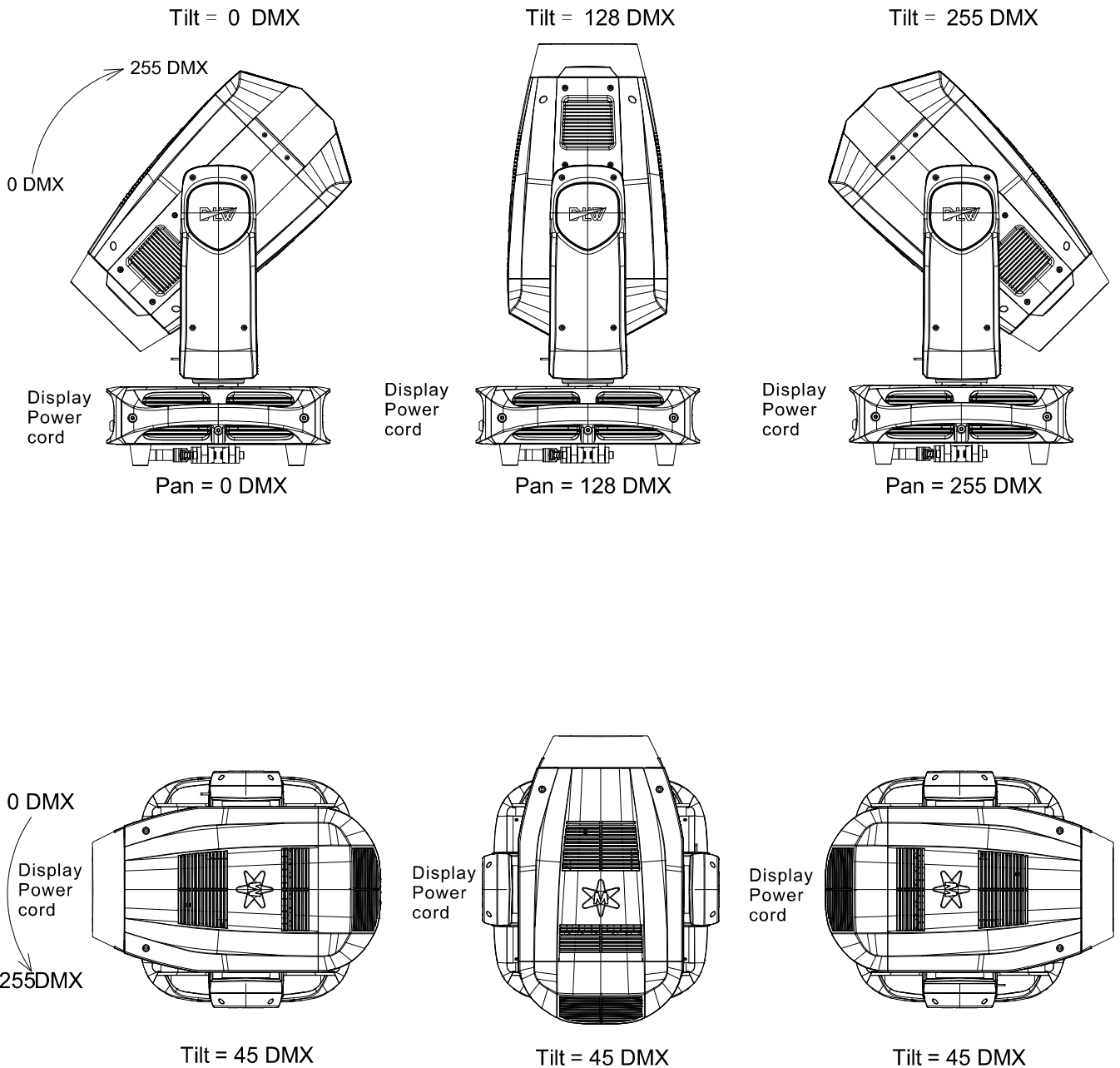
- Step motor or motor leading wire Maybe damaged.
- Drive circuit of motor may be damaged.

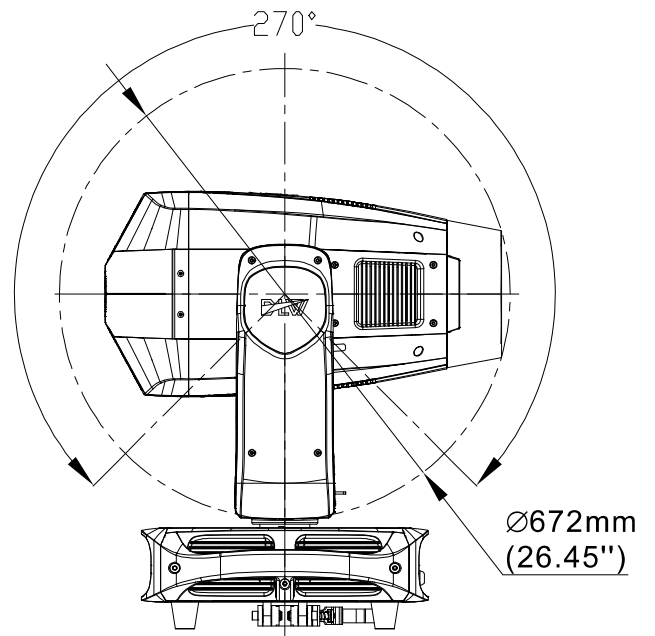
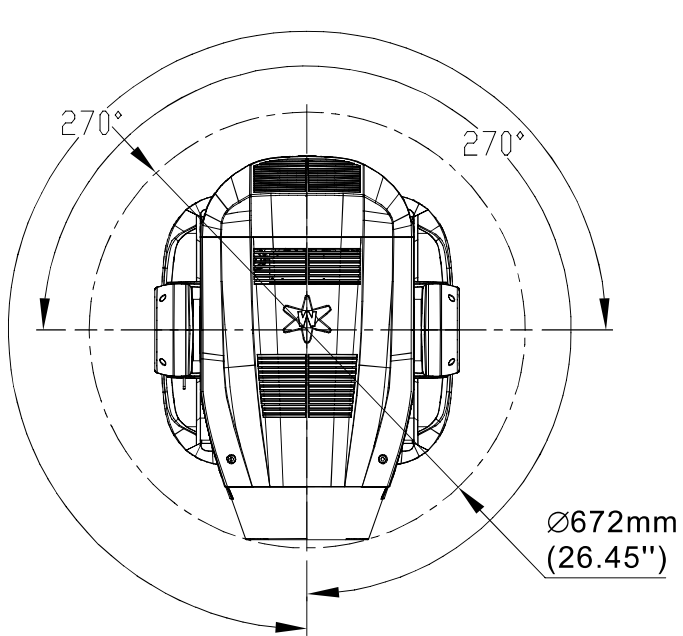
**Lamp blinking:**

- Check if the voltage is too high or too low, when the lamp is abnormal lighting.
- It is necessary to change the fan if the inner temperature is too high.

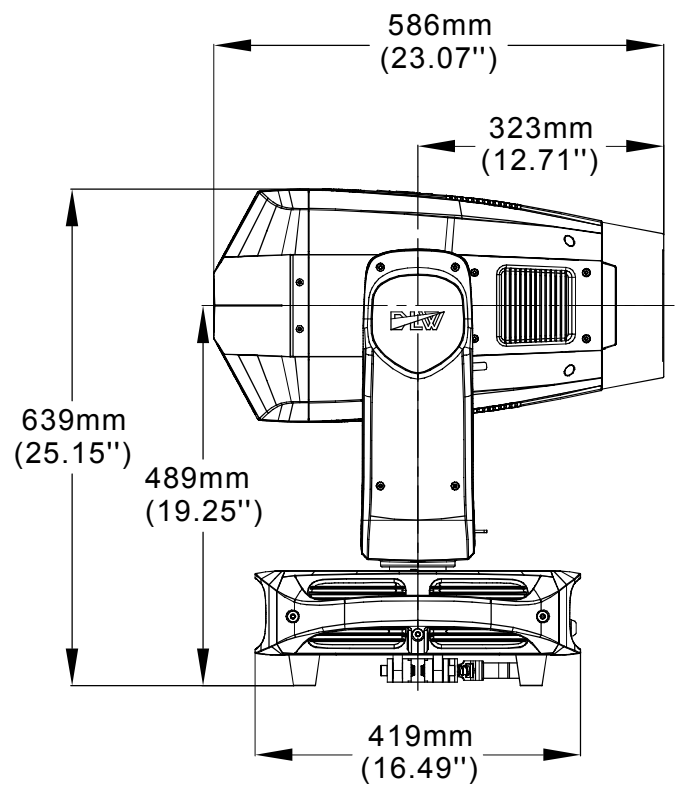
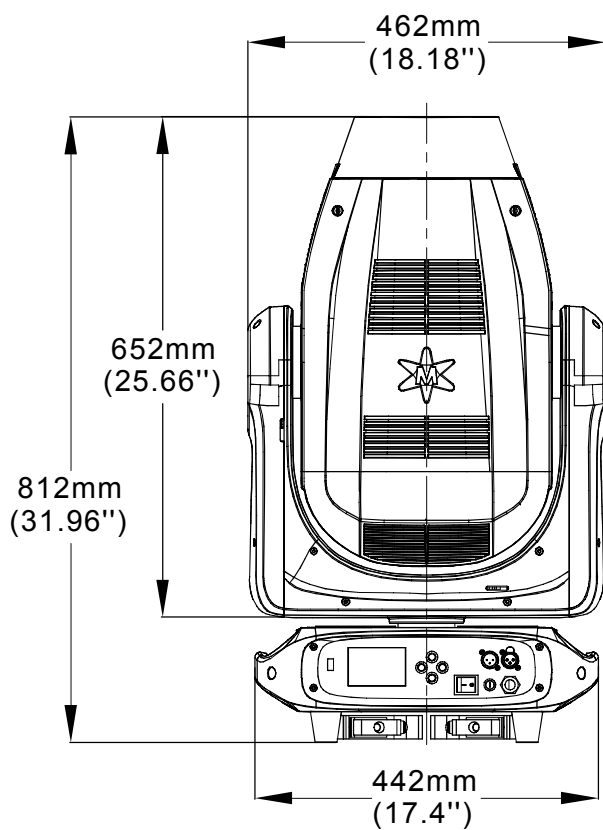
# Attachment 1 Angle range and the measurement figure of the fixture

## ● Angle range of the fixture





● The measurement figure of the fixture







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